

Volume

#

R0301

BOOK A-301

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Township 7 N., Range 17 W.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS

WE, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____.

, Chainman

, Chainman

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____.

, Moundma

, Moundma

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of _____ and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____.

, Axm

, Axm

Subscribed and sworn to before me this _____
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____.

, Flag

Subscribed and sworn to before me this _____
day of _____, 190 }



INDEX DIAGRAM.

Township 7 N., Range 16 W.

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....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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Township 6 N., Range 18 W.

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PRELIMINARY OATHS OF ASSISTANTS.

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....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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PRELIMINARY OATHS OF ASSISTANTS.

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_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 189_____



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189_____



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 189_____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189_____



BOOK A-301

INDEX DIAGRAM.

Township 5 N., Range 17 W.

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....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

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....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability; in the survey of

....., *Flagman.*

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day of , 189 }



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Township 6 N., Range 16 W.

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Meanders Page.....

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WE, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
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WE, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
 day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
 day of , 189 }



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 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

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Subscribed and sworn to before me this }
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....., Axman.

....., Axman.

Subscribed and sworn to before me this }
 day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
 day of , 189 }



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Meanders Page.....

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....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



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do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-301

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Township 4 N., Range 17 W.

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PRELIMINARY OATHS OF ASSISTANTS.

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_____, Chainman.

_____, Chainman.

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day of _____, 189 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 }



A.

FILED
JAN 6 1904

BOOK A-301

FIELD NOTES

Re
OF THE SURVEY OF THE

North and West Boundaries

of

Pownalville No. 7 North Range No. 17 West

of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Andrew O. Hanson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189

Survey commenced April 9, 1903, 189

Survey completed April 11, 1903, 189

6-101

<i>Survey N. Bdy - high</i>	<i>2-36-72 ✓</i>	<i>6-02-41</i>	<i>3' 11"</i>
<i>low</i>	<i>3-44-69 ✓</i>		
<i>" W. " high -</i>	<i>1-40-48 ✓</i>	<i>4' 00"</i>	
<i>" " low -</i>	<i>4-38-93 ✓</i>	<i>3' 17"</i>	

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann Chairman

R J Friseth Chairman

J F Hoffmann Vice-Chairman

Frank Hoffmann Jr. Vice-Chairman

R J Friseth Asst. Chairman

Frank Hoffmann Jr. Asst. Chairman

B P Lawrence Flagman

BOOK A-301

INDEX-DIAGRAM.

Township . Range

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, J. F. Hoffmannand R. J. Faircloth

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

N. bdy. T. 7 N. R. S 16 and 17 W. - W. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W. of the Salt Lake Basa & Brandian Ranch

J. F. Hoffmann

, Chainman.

R. J. Faircloth

, Chainman.

Subscribed and sworn to before me this

8⁰⁰day of April - 1903WE, J. F. Hoffmannand Frank Hoffman Jr.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

N. bdy. T. 7 N. R. S 16 and 17 W. - W. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W. of the Salt Lake Basa & Brandian Ranch

J. F. Hoffmann

, Moundman.

Frank Hoffman Jr.

, Moundman.

Subscribed and sworn to before me this

8⁰⁰day of April - 1903WE, R. J. Fairclothand Frank Hoffman Jr.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

N. bdy. T. 7 N. R. S 16 and 17 W. - W. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W. of the Salt Lake Basa & Brandian Ranch

R. J. Faircloth

, Axman.

Frank Hoffman Jr.

, Axman.

Subscribed and sworn to before me this

8⁰⁰day of April - 1903I, B. R. Lawrence

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

resurvey of N. bdy. T. 7 N. R. S 16 and 17 W. - W. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W. of the Salt Lake Basa & Brandian Ranch

B. R. Lawrence

, Flagman.

Subscribed and sworn to before me this

8⁰⁰day of April - 1903

My commission expires August 12th 1903

Ram Raney

Notary Public

Survey N and W. Bdy. T. 7 N R. 17 W.

Claims Survey commenced April 9, 1903 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two opposite verniers reading to 1' of arc which is also the least count of the verniers of the latitudes and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor general for Utah April 6, 1903. —

My instructions do not indicate any particular point for commencing the survey further than, that, I shall first retrace the exterior boundaries of older surveys adjoining; therefore having arrived at the nearest settlement and learning that no data can be obtained regarding these corners which are located on the desert far from any habitation, nor does any topographical feature exist which would enable me to approximately locate them; therefore it becomes necessary to obtain a starting point elsewhere, and after much search I locate the 14 sec. cor. bet. secs. 3 and 4 T. 7 N. R. 18 W. which is a stone about perfectly marked. — At said cor. I take an observation on the sun with the solar attachment on my transit and run north 4000 chs. where I find the cor. of secs. 3-4-33 and 34 bearing west 95 deg., it being a stone perfectly marked lying on top of the ground. — I reset said stone firmly in the ground with a notch on E & S. edges, dig pit 18x18x12 in. in each sec. 6 1/2 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high wof cor. — From this cor. I run east bet. secs. 3 and 34 along N. bdy. T. 7 N. R. 18 W. and at 4000 chs. intersect the 14 sec. cor. which is now over bolt in a small mound of earth but no pits discernible. — I dig pit 18x18x12 in. E and W. of cor. 4 ft. dist; and raise a mound of earth over debris. — In E pit drove a pine stake 2 ft. long 2 in. square 12 in. in the ground marked 14 S. 3 ft. on N. face and 3 on S. face. — Ab. 80,61 chs.

Reservoir at Bodie. T 7 R 17 W.

claims fall 20 lbs S. of cor. of recs. 2-3-34 and 35 which is a low mound surrounded by dirt. I dig but find no deposit. - I set a dark trap rock 16x6x6 in. for cor. of recs. 2-3-34 and 36 marked with 2 notches on E. and 4 notches on W. edges; dig pit 18x18x12 in. 5 1/2 ft. deep; and raise a mound of earth 4 ft. base 2 ft. high N. of cor. - From this cor. the chimney in the center of telegraph office and station house of Old Lucin C.P.R.R. bears S. 6° 30' W. -

From cor last described I run east bet. recs. 2 and 35 at 34,70^{ft.} C.P. 19,19. track bears. north easterly and south-westerly; at 40,36 chs. fall 21 lbs. S. of the 44 rec. which is a stake 24 in. long 1x2 in. square lying on a low mound of earth - pit faintly discernible. I dig but find no deposit. - I deposit a quart bottle of clear white glass 12 in. in ground for 44 rec cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. deep; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. -

In E. pit drove stakes found, and marked 44 S. on N. face At 80,80 chs. fall 26 lbs S. of cor. of recs. 1-2-35-36 which is a quartzite stone 7x5x4 in. faintly marked with 1 and 3 notches on opposite edges, lying on a low mound of earth. - I set a quartzite stone 16x6x6 in.^{10 in. in the ground} for cor. of recs. 1-2-35-36 marked with 1 notch on E and 3 notches on W. edges; raised a mound of earth and drove 2 ft. base 1 1/2 ft. high N. of cor. -

Then I run east bet. recs. 1 and 36:

At 40,44 fall 1.20 chs S. of the 44 rec. cor. which is a marked stake 18x14x1 in. lying on top of small mound; I dig but find no deposit. -

Set a quartzite stone 16x6x6 in. 18 in. in the ground for 44 rec. cor. marked 44 on N. face; dig pit 18x18x12 in. E and W. of cor. 3 ft. deep and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. - drove stakes found, alongside of stone. -

At 80,78 chs. fall 1.51 chs S. of the cor. of Tps. 7 and 8 N. R² 17 and 18 W. as found, a redwood post 3 ft. long 3x3 in. square marked with 6 notches

Reservoir, N. Body T 7 N R 17 W

chains on each edge, lying on a small mound of earth -
in which I dig but find no deposit. -
I set a limestone $16 \times 7 \times 4$ in. " in the ground
8 N. R 17 and 18 W. marked 8 N on N.E. 17 and S.
7 N on SW and 18 W on E.W. faces; with 6 notches on
each edge; dig pit $2.4 \times 2.4 \times 1.2$ in. on each line N.
E and W 4 ft. and S of above 8 ft. deep; and raise a
mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of car. -
I have now obtained a starting point for the survey. -

I examine the adjustments of the transit and
correct the level and collimation errors; then to
test the solar apparatus by comparing its indication
resulting from solar observations made during
a.m. and p.m. hours with a meridian determined
by observation on Polaris I proceed as follows:

At the cor. of Tps. 7 and 8 N R 17 and 18 W. latitude
 $41^{\circ} 22' 35''$ N. longitude $113^{\circ} 58' 0''$ W. I set $41^{\circ} 22' 30''$
N. on the lat. arc $7^{\circ} 25'$ N. of the decl. arc and
at $3^{\circ} 5' 0''$ p.m. l.m.t. determine with the solar
as meridian and mark a point thereof on a stake
firmly set in the ground 5 chs. N. of the corner. -
At $9^{\circ} 10''$ p.m. l.m.t. I observe Polaris in accordance
with manual of instructions and mark a point
in the line thus determined, on a peg driven in
the ground 5 chs. N. of the cor. -

Astron. v.r.n.t. of obs. April 9 - - - - -	$9^{\circ} 10''$
U.C. Polaris April 9 - - - - -	$0^{\circ} 16.1$
Altitude angle of Polaris at obs.	$8^{\circ} 53.9''$
Azimuth of Polaris at obs. - - - - -	$1^{\circ} 09' W.$

April 9, 1903

April 10: At 7° a.m., l.m.t. I lay off the azimuth
of Polaris $1^{\circ} 09'$ to the east and mark the meridian
thus determined by a nail driven in the stake
set April 9, on which the meridian falls. 0.4 in
west of the mark determined by the solar. -

At $8^{\circ} 10''$ a.m. l.m.t. I set off $41^{\circ} 22' 35''$ N. on the lat.
arc. $7^{\circ} 41'$ N. on the decl. arc. and mark a point
in the meridian determined with the solar, by
a tack driven in the stake already set 5 chs. N. of

Resurvey N. 13dy. T 7 N R 17 W.

chain my stations; their mark falls 0.2 in. E. of the meridian established by the Polaris observation.—

The solar apparatus by p.m. and a.m. observation defines positions for meridian respectively within 1° E. and W. of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.—

The magnetic bearing of the true meridian at 8⁴⁵ 10^m a.m. is N. 17° 50' W.; the angle thus determined gives the mag. decl. 17° 50' E.—

From the Tp. corr. already described I retraced East on the N.bdy. of T 7 N R 17 W. noting the distance and falling at each corr. and at 482.67 chs fall 5.27 chs. S of the cor. of Tps. 7 and 8 N. R 16 and 17 W..

The entire line being faulty in alignment and measurement, one corner missing and all the others nearly obliterated I make a resurvey as follows: I begin at the cor. of Tps. 7 and 8 N. R 16 and 17 W. as found; a redwood stake 3 ft. long 2 1/2 ins. square marked with 6 notches on each edge; much decayed and lying on a small mound of earth; in which I dig but find no deposit.—

I set a siliceous limestone 18×7×6 in. 12 ins. in the ground for cor. of Tps. 7 and 8 N. R 16 and 17 W. marked T 8 N on N.E., R 16 W on S.E., T 7 N on S.W. and R 17 W on N.W. faces with 6 notches on each edge; dig pit 24×24×12 ins. on each line N. E. and W. 4 ft. and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2 1/2 ft. high S of cor.

Along side of stone, drive old cor. stake firmly in the ground. Then I run

West bet. recr. 1 and 30

Over level land

40.87 The 1/4 sec. cor. as found; a redwood stake 3 ft. long 2×6 in. square. marked 1/4 S., lying on a low mound of earth in which I dig but find no deposit.—

I set a siliceous limestone 17×8×6 in. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dig pit 18×18×12 ins. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. Along side of stone drive old stake cor. firmly in the ground.

Recovery of N. 13dy. T 7 N R 17 W.

drains	Three Drives S 89° 5' 4" W
	Outermost drives land course N.W. and S.E.
	Ascending gradually on rolling slope, through undergrowth
40,68	Thru. cor. of secs. 1-2-35 and 36 as found, a stone 3 ft. long 2 in square much decayed, marked with 1 and 5 notches on opposite edges, and lying on a small mound of earth in which I dig but find no deposit. -
	Set a siliceous tufa rock 18x9x8 in. 12 in. in the ground for cor. of secs. 1-2-35 and 36 marked with 1 notch on E. and 5 notches on W. edges; dig pit 18x18x12 in. in each sec. 5½ ft. deep, and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land level alkali desert, and rolling slopes Soil clay, and gravelly wash 3 ft. rate
	No timber
	Thorny shrub, and sage undergrowth -
	Mountainous land 40,68 cts.
	April 10: at this cor. I set off 7° 44' "N on the decl are and at 1242 m from 1 in 7 observe the sun on the meridian: the resulting lat. 41° 22' 35" N.

	S. 89° 7' W bed. secs. 2 and 35
	Over mountainous land
	Ascending, rolling slopes.
19,80	Ascent becomes abrupt on rocky slope course N.W. and S.E.
26,35	Top of spur running N. 200 ft. above cor.
	Begins abrupt descent
40,02	Thru 1/4 acre, cor. as found a lava stone firmly set 10x10x6 in. above ground surrounded by small mound of stones, markings obliterated. - Remark stone 1/4 on N. face and raise a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
	Three Drives S 89° 17' W.
3,35	Shallow 100 ft. deep drains N. - Ascending
21,50	Top of spur runs N. 100 ft. high. - Descend
27,60	Shallow 50 ft. below spur drain. N.E. - Ascending abruptly to the proportionate distance, cor. not found. -
39,76	Set a siliceous limestone 18x8x6 in. ^{12 in. in the ground} for cor. of secs. 2-3-34 and 35 marked with 2 notches on E and 4 notches on W. edges raise a mound of stones 2 ft. base 15 ft. high N. of cor.
	Pits impracticable. -
	Land. Mountainous, broken, steep slopes

Survey of N. 13dys. T. 7 N. R. 17 W.

Chain	Soil rocky and gravelly 4 miles No timber In mountainous land 79,78 chs.-
	S 89°17' W bet. secs 3 and 34 through undergrowth. Over mountainous land Ascending on rocky slopes
2,30	Top of mountain ridge bears N. and S. 550 ft. above desert Begin abrupt descent on W slope
21,80	Descent becomes gradual on rolling slope course N. and S.
39,76	Thru 1/4 sec cor. as found; a redwood stake 3 1/2 ft. long 2 in square set 6 in. in the ground by side of small mound of earth and marked 1/4 on N. face; I dig in mound but find no deposit. — Set a quartzite stone 16x8x6 ins. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. E. and W. of stone 3 ft. dirt, and raise a mound of earth 3 1/2 ft. base 14 ft. high N. of cor. along side of stone drive old stake cor. firmly in ground Therein I run S. 85°57' W.
36,50	Foot of slope bears N. and S.; enter level land Leave mountainous land
39,45	Wash 6 ft. wide 3 ft. deep drains N 20° E. from S. and S. W.
39,48	Thru cor. of secs. 3-4-33 and 34 as found; a pine post 3 ft. long 2 1/2 ins. square marked with 3 notches on each edge and lying on a low mound of earth; in which I dig but find no deposit. — Set a siliceous tufa stone 16x8x5 ins. ^{11 in. in ground} for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges; dig pit 18x18x12 ins. in each sec. 5 1/2 ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. along side of stone drive old stake cor. firmly in ground Land mountainous slopes and level alkali desert Soil clay and gravelly wash except first 21,80 chs. which is barren rock and slide. 3rd and 4th miles No timber. - Thuring shrub and sagebrush undergrowth Mountainous land 76,26 chs.-
	S.89°50'W. bet. secs. 4 and 33 Level alkali desert
40,20	Thru 1/4 sec cor as found; a redwood stake 3 ft. long 2 1/2 in.

Reservoir of N. Rdg. T 7 N R 17 W

Claims	square marked 14-5., lying on a low mound of earth in which I dig but find no deposit: - stake much decayed set a quartzite stone 16x7x6 in. 11 in. in the ground for 14 rec. cor. marked 14-5 on N. face; dig pit 18x18x12 in. E and W of stone 3 ft. dist. and raise a mound of earth - 3½ ft. base 1½ ft. high N. of cor. -
80,62	Alongside of stone drive old stake cor. firmly in ground Thw cor. of recs. 4-5-32 and 03 as found: a redwood post. 3 ft. long 2 in. square marked with 4 notches on E and 2 notches on W edges: much decayed and lying on a small mound of earth in which I dig but find no deposit: -
	Set a siliceous tifa stone 16x8x6 in. 11 in. in the ground for cor. of recs. 4-5-32 and 03 marked with 4 notches on E and 2 notches on W. edges; dig pit 18x18x12 in. in each rec. 3½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Alongside of stone drive old stake cor. firmly in ground Land level alkali desert Soil clay covered with white crust in hollows & taste no timber Thorny shrub and sagebrush undergrowth - 80,62 cl. 2.

	West bet. recs. 5 and 32 Level, desert land
40,40	Thw 14 rec. cor. as found: a redwood stake 3 ft. long 2 in. square marked 14-5 and lying on a low mound of earth in which I dig but find no deposit; pit faintly discernible. -
	Set a siliceous tifa stone 17x7x5 in. 11 in. in the ground for 14 rec. cor.: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. -
80,88	Alongside of stone drive old stake cor. firmly in ground Thw cor. of recs. 5-6-31 and 02 as found: a redwood stake 3 ft. long 2 in. square marked with 5 notches on E. and 1 notch on W. edges lying on a low mound of earth in which I dig and find remains of an old cor. -
	I set a siliceous tifa stone 16x8x5 in. 11 in. in the ground for cor. of recs. 5-6-31 and 02 marked

Recovery of N. Bdy. of T. 7 & R 17 W.

chain	with 5 notches on E. and 1 notch on W. edges: dig pit 18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. N. of cor. - Along side of stone drive old stake cor. firmly in ground. Land level alkali desert soil, clay covered with white crust in hollows. No timber. Thorny shrub and sagebrush undergrowth - 80.88 ch.
40,18	S. 89-33' W bet. sec. 6 and 31 Thru 44 sec. cor. as found: a redwood stake 3 ft. long 2 1/2 in square marked 44 S and lying on a low mound of earth in which I dig but find no deposit. - I set a quartzite stone 17x6x6 in. 11 in. in the ground for 44 sec. cor. marked 44 var. N. face: dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. N. of cor. Along side of stone drive old stake cor. firmly in ground. Thenew I run S. 89-49' W.
40,16	Th cor. of townships 7 and 8 N. ranges 17 and 18 W. as before described. Land level, alkali desert soil clay covered with white crust in hollows. No timber. Thorny shrub and sagebrush undergrowth - 80.34 ch.

April 10, 1903.

April 11: At 7:410 a.m., first I set off 45° 22' 35" N. of the lat. arc, 8° 3' N. of the decl. arc and determine with the solar or true meridian at the cor. of Tps 7 and 8 N R 17 and 18 W. as heretofore described. Then I run on retacement south along the W. bdy. of T. 7 N R 17 W. noting the distance and falling at each cor. and at 479.32 ch fall 5.05 ch. W. of the cor. of Tps 6 and 7 N R 17 and 18 W. The entire line being faulty in alignment and measurement and the corners nearly obliterated, with one missing I resurvey this line as follows. - The cor. of Tps 6 and 7 N R 17 and 18 W. as found in a cedar post 3 1/2 ft. long 3 1/2 in. diam. buried on 4 sides and marked with 6 notches on each edge, lying

Resurvey N. Bdy. T. 7 M. 12. 17. 21.

claims on at low mound of earth with one end factored. Cut
in the ground. —

I set a quartzite stone 17 x 8 x 5 in. 12 in in the
ground for cor. of township 6 and 7 N. ranges 17 and
18 W. marked T 7 N on N.E., R. 17 W on S.E., T. 6 N on S.W.
and 17. 18 N on N.W. face with 6 notches on each.
edge: dig pit ^{24x24x12 in.} on each line N.E. and N.W.
stone 6 ft. dist. and 8 of. cor. 8 ft. and raise a mound
of earth: 6 ft. base 4 ft. high. 8 of cor.

Place old stake cor. along side of stone. —

Thinner I run

N. 1^o. 40 W. bet. aces. 31 and 36

Through dense undergrowth, in delta of Grouse Creek

O. mouth of Grouse Creek 4 like wide flows S 10° W.

Thru 14 sec. cor. as found: A quartzite stone firmly set
6 x 5 x 5 in. above ground and marked 14 on W. face.
I dig pit 18 x 18 x 12 in N and S of stone 3 ft. dist and
raise a mound of earth: 3 1/2 ft. base 1 1/2 ft. high W. of cor.

Thinner I run N. 0° 17' E.

O. mouth of Grouse Creek 4 like wide flows S 10° W.

Thru cor. of aces. 25-30-31 and 36 as found: a cedar post
3 ft. long. 3 in square roughly hewn and marked with 1
and 5 notches on opposite edges; lying on a low mound
of earth. —

I set a quartzite stone 16 x 8 x 6 in. 11 in. in the
ground for cor. of aces. 25-30-31 and 36 marked with
1 notch on S. and 5 notches on N. edges: dig pit in
each acre 18 x 18 x 12 in. 6 1/2 ft. dist. and raise a
mound of earth: 4 ft. base 2 ft. high W. of cor.

Place the old stake cor. along side of stone. —

Laid level, rough, broken with washers.

Soil aluvial wash 1st rate

No timber. —

Dense undergrowth of thorny scrub and angelonia
Dense undergrowth - 80.16 chs. —

N. 0° 10' W bet. aces. 26 and 30

Through dense undergrowth.

Following w. edge of Grouse Creek wash.

Thru 14 sec. cor. as found: a pine post 3 ft. long 3 in
diam. roughly hewn and marked 14. S.; lying on a

JUN 1 A.M. 11

Survey of W. Bdy. of T. 7 M. 12 S. 7 R.

	low mound of earth and much decayed -- I set a siliceous lava stone 17x8x5 in. 11 in. in the ground for 14 sec cor. marked 14 on W. face: dig pit 18x18x12 in. N and S of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. Place old stake cor alongside of stone.
	Survey Line N 0° 50' W. Ground Creek Marsh bears N 16° E Leave dense undergrowth --
39,57	The cor. of recs. 19-24-25 and 30 as found: a fine stately 3 ft. long 3 in diam roughly hewn and marked with 2 and 4 notches on opposite edges; lying on a low mound of earth and much decayed. Set a quartzite stone 17x7x6 in. 11 in. in the ground for cor. of recs 19-24-25 and 30 marked with 2 notches on S. and 4 notches on N. edges: dig pit 18x18x12 in. in each sec. 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. -- Land level, rough, broken with washes Soil alluvial wash 1 1/2 in. No timber. Dense undergrowth of thorny shrubs and sagebrush on 1/2 half mile, balance, low sagebrush. -- Dense undergrowth 40,32 cl. --
	April 11: at this cor. Set off 8° 6' 30" N on the decl. are. and at 12° 1.2" p.m., 1 m. - observe the sun on the meridian: the resulting lat. is 41° 7.9' W. --
	N 0° 58' W. bet. recs. 19 and 24 Over rolling surface
40,52	The 14 sec. cor. as found: a hewn pine post 3 ft long 2 in square, lying on a low mound of earth and marked 14S: I set a quartzite stone 16x8x5 in. 11 in. in the ground for 14 sec cor. marked 14 on W. face: dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. Place old stake cor. alongside of stone. Survey Line N 1° 41' W. --
39,68	The cor. of recs. 13-18-19 and 24 as found: a hewn stately 2 1/2 ft. long 2 in. square, lying on a low mound of earth and marked with 3 notches on opposite edges!

Resurvey of Mr. Bdy of T 7 N 18 17 W.

chain. Soil or quartzite. Stone 17x7x5 in. 11 in. in the ground for cor. of secs. 13-18-19 and 24 marked with 3 notches on each edge; dig pit - 18x18x12 in. in each sec. 6 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Along side of stone drive old stakes cor. firmly in ground. Land rolling, broken and gullied. -
Soil clay, and gravelly alluvial wash 1st rate. -
No timber. -
Low growth of thorny shrubs. 80, 20 cl. 2.

- N 0° 15' W bet. secs. 13 and 18
Descending gradually
- 34,20 Perpendicular right bank of Ground Creek. 20 ft. deep. bears N.W. and S.E. in hollow 30 ft. deep.
34,95 Ground Creek 5' like wide floor. S.E.
35,40 Perpendicular left bank of Ground Creek 20 ft. high bears N.W. and S.E.
40,46 The 1/4 acre cor. as found: a greenwood stake 2 ft. long 2 in. dia. marked 1/4 S; lying on a low mound of earth in which I dig but find no deposit. -
Soil or quartzite stone 17x7x5 in., 11 in. in the ground for 1/4 sec cor. marked 1/4 W. face; dig pit 18x18x12 in. A and S of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
Place old stakes cor. along side of stone
Then I run N 0° 23' W
Ascending gradually on S.W. slope
- 2,000 Top of swell bears N.W. and S.E. 60 ft above hollow
Descending gradually to -
- 39,86 The cor. of secs. 7-12-13 and 18 as found: a greenwood stake 2 1/2 ft. long 2 in. square lying on a low mound of earth and marked with 2 and 4 notches on opposite edges.
Soil or quartzite stone 17x7x5 in. 11 in. in ground for cor. of secs. 7-12-13 and 18 marked with 4 notches on S and 2 notches on N. edges; dig pit 18x18x12 in. in each sec. 6 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. -
Along side of stone drive old stakes cor. firmly in the ground. Land rolling, broken.
Soil clay, and sandy loam 2nd rate
No timber.

Resurvey of W. Bdy. of T. 7 N. R. 17 W.

claims	Thorny shrub and sagebrush undergrowth - 80.32 chs.
17.28	N 1° 10' W bel. sec. 7 and 12 Center of track of Lucin Cut Off. C.P.R.R. bears South easterly and north westerly Telegraph line runs parallel with track The proportionate distances, cor. not found.
18.20 39.74	I set a quartzite stone 16 x 10 x 6 in. ["] in the ground marked 1/4 sec. cor. or face: dig pit 18 x 18 x 12 in. N and S of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
79.48	The cor. of sec. 1-6-7 and 12 as found: a broken cedar post 2 1/2 in. square 18 in. above ground firmly set and properly marked, markings faint and nearly obliterated Against post I set a siliceous lava stone 16 x 8 x 6 in. 11 in. in the ground for cor. of sec. 1-6-7 and 12 marked with 3 notches on S. and 1 notch on N. edges: dig pit 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor. Land level Soil sandy and clay. alternating 3rd rate No timber
	Thorny shrub and sagebrush undergrowth - 79.48 chs.
8.30	N. 0° 32' W. bel. sec. 1 and 6
40.26	Road from Old Lucin to Lakeside bears N W and S. E. The 1/4 sec. cor. as found: a broken ax handle lying on a low mound of earth and marked 1/4 S.: I dug but find no deposit. - Set a siliceous lava stone 17 x 8 x 6 in 11 in in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18 x 18 x 12 ins. N and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
2.30	Thinner I run N 10° 17' E.
39.50	Hollow 2 1/2 ft. deep drains S.E. The cor. of tr. 7 and 8 N. R. 17 and 18 W. as heretofore described. -
	Land rolling Soil clay and sand alternating. 3rd rate No timber
	Thorny shrub and sagebrush undergrowth - 79.36 chs.

April 11, 1903

Survey of W. Bdy. T. T.M.R. 17W.

General Description

For general description, see field notes of subdivision of
T. T.M.R. 17W. Book 2.

Andrew P. Dawson

U.S. Dep. Surveyor

Volume

#

R0301

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
..... United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
showing the respective capacities in which they acted:

..... Chainman.

..... Chainman.

To final affidavit see book C file No 1847 Moundman.
..... Moundman.

..... Arman.

..... Arman.

..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
..... United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the

..... meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

..... Chainman.

..... Chainman.

..... Moundman.

..... Moundman.

To final affidavit see book C file No 1847 Arman.
..... Arman.

..... Flagman.

Subscribed and sworn to before me this }
..... day of 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

Fairfield offidado de lool C. J. P. 6 MR 1897

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Dall Lake, etc. Dated March 31, 1904
to the North & West boundaries
Township of North Range 17 N. of the Dall Lake
Base & Principal Meridian*

executed by *Andrew P. Dawson*,
under his contract No. 261, dated March 18, 1903, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward P. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-301

FILED

JAN 6 1904

FIELD NOTES

Re
OF THE SURVEY OF THE

North Boundary

of

Township No 7 North Range No 16 West

of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189-

Survey commenced April 12, 1903, 189-

Survey completed April 12, 1903, 189-

6-151

Low - 6-01-22 ✓

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann - - - Chairman

R J Friendt - - - Chairman

J F Hoffmann - - - Vicechairman

Frank Hoffmann Jr - - - Vicechairman

R J Friendt - - - Axeman

Frank Hoffmann Jr - - - Axeman

B R Lawrence - - - Flagman

For preliminary affidavits seal not Q. Tijj M. P. W.

BOOK A-301

INDEX DIAGRAM.

Township _____, *Range* _____

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20	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, _____, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

, Chairman.

, Chairman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



We, _____, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

, Moundman.

, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



We, _____, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

, Axman.

, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



Resurvey of N. Bdy. of T 7 N R 16 W

Chains Survey commenced April 12, 1903 and executed with a W & L & Gurley light mountain transit with solar attachment. —

Note: For further descriptions of instrument and test of adjustments see Book 'A.' under date of April 10, 1903 and being confident the instrument still remains in proper adjustment I consider it unnecessary to repeat the test at this time. — I begin at the cor. of townships 7 and 8 N ranges 16 and 17 W. as heretofore described, thence 0 retracing East on N. Bdy. T 7 N. R. 16 W. noting the distance and falling at each cor. and at 481.19 ch. fall 3.76 ch. S of cor. of Tps. 7 and 8 N R 15 and 16 W. — The entire line being deficient in alignment and measurement and the cor. nearly obliterated I make the following resurvey. — Sky overcast, no solar observations to be obtained.

I begin at the cor. of townships 7 and 8 north ranges 15 and 16 W. as found; a post 3 x 3 in square set firmly in the ground but much decayed and broken off 6 ins. above the surface, top end not found. — This post stands in the N. edge of a low mound of earth in which I dig but find no debris. —

Set a silicones limestone 18 x 7 x 6 in 12 in. in the ground for cor. of townships 7 and 8 N. range 15 and 16 W. marked T. 8 N. on N. E., R 15 W on S. E., T. 7 N. on S. W. and R. 16 W. on N. W. faces with 6 notches on each edge; dig pits 24 x 24 x 12 in. on each line N. E. and W. 4 ft. and S of stone 8 ft. dist.; and raise a mound of earth 6 ft. high 2 1/2 ft. high S of cor. —

Then I run

S. 89° 06' W. beh recs. 1 and 3 G

Over level land

4016 The 1/4 sec. cor. as found; a redwood post 3 ft. long 2 1/2 in. square, set 6 ins. in the ground in edge of low mound of earth and marked 1/4 S. — I dig but find no debris. — Markings on stakes nearly obliterated. Set old post with marked stone 24 in. in the ground for 1/4 sec. cor. marked 1/4 S. 3 6 on N. face and 1 on S. face; dig pits 18 x 18 x 12 ft. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. high 1 1/2 ft. high N. of cor. —

Then I run S. 89° 47' W. —

Survey of N. Bdy. T 7 N R 10 W.

charin	
4012	<p>Thw cor. of secs. 1-2-3 & and 36 as found: a redwood post 3 ft. long 3 in square set 6 in. in the ground in edge of low mound of earth and marked with 1 notch on E. and 5' notches on W. edges - markings nearly obliterated I dig in pit but find no deposits. -</p> <p>Set the old post with marked stone 24 in. in the ground for cor. of secs. 1-2-3 & and 36 marked T 7 N S. 36 on N.E., R 10 W. 3.1 on S.E., T 7 N S. 2 on S.W. and 3.35 on N.W. faces with 1 notch on E. and 6' notches on W. edges; dig pits 18x18x12 in in each sec. 6½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land level, white alkali desert</p> <p>Soil clay and alkali mud, soft and very saline No timber; no vegetation.</p> <p>April 12: at this cor. I set 8° 28' 30" N. on the due. dry and at 12 h 1 m p.m. I mt. obsses the sun on the meridian the resulting lat. is 41° 22' 35" N.</p>
	S 89° 21' W. bet. secs. 2 and 3 &
4015	<p>Thw 1/4 sec. cor. as found: a redwood post 3 ft. long 3 in. square marked faintly 145 and lying on a low mound of earth in which I dig but find no deposits. -</p> <p>Reset old stake with marked stone 24 in. in the ground for 1/4 sec. cor. marked 145.05 on N. face and 2 on S. face; dig pits 18x18x12 in E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. Thence I run. S 89° 10' W.</p>
4012	<p>Thw cor. of secs. 2-3-34 and 35 as found: a redwood post 3 ft. long 3 in. square set 6 in. in the ground and marked with 2 notches on E. and 4 notches on W. edges</p> <p>Reset old post with marked stone 24 in. in the ground for cor. of secs. 2-3-34 and 35 marked T 7 N S. 35 on N.E., R 16 W. S. 2 on S.E., T 7 N. S. 3 on S.W. and S. 34 on N.W. faces with 2 notches on E. and 4 notches on W. edges; dig pits 18x18x12 in in each sec. 6 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land level alkali desert.</p> <p>Soil - clay and mud, soft and very saline. No timber.</p> <p>Thorny shrub undergravel scattering</p>

Resurvey of N. Body - T. 7 M. 1916 W.

- | | |
|--------|--|
| chains | S. 89° 13' W. bel. recs. 3 and 34
Over flat alkali desert |
| 40,18 | Thw. $\frac{1}{4}$ sec. cor. as found: a redwood post 3 ft. long 3 in square, lying on a low mound of earth; markings faintly discernible. -
Reset old post with marked above 24 in. in the ground for $\frac{1}{4}$ sec. cor. marked 445 34 on N face and 3 on S. face: dig pit $18 \times 18 \times 12$ in. E and W of post 3 ft. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. |
| 80,28 | Thw cor of recs. 3-4-33 and 34 as found a redwood post 3 ft. long 2 in. square lying on a low mound of earth and much decayed; markings indistinct. - I dig in mound but find no deposit. -
Set a silicic limestone $17 \times 8 \times 5$ in. 12 in in the ground for cor of recs. 3-4-33 and 34 marked with 3 notches on E. and on edges; dig pit $18 \times 8 \times 12$ in. each rec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base $2\frac{1}{2}$ ft. high N. of cor.
Place old statue cor. by side of stone
Land level alkali desert
Soil clay and mud, soft and very $4\frac{1}{2}$ sat.
No timber
Low thorny shrub undergrowth scattering |
| 40,18 | S 88° 47' W. bel. recs. 4 and 33
Over flat alkali land
Thw $\frac{1}{4}$ sec. cor. as found: a statue 3 ft. long 2 in. diam. much decayed, markings indistinct; a low mound of earth along side of statue in which I dig but find no deposit. -
Set a quartzitic stone $17 \times 7 \times 6$ in 11 in in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face: dig pit $18 \times 18 \times 12$ in. E and W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
Thence I run West. |
| 40,32 | Thw cor. of recs. 4-5-32 and 33 as found: a redwood post 3 ft. long 3 in square set 6 in. in the ground in a low mound of earth; markings nearly obliterated
Set a quartzitic stone $18 \times 8 \times 5$ in. 12 in in the ground for cor. of recs. 4-5-32 and 33 marked with 4 notches on E and 2 notches on W. edges; dig pit $18 \times 18 \times 12$ |

Resurvey of N. 13 deg. T. 7 M. R. 1 E. N.

claims	in each rec. 5 1/2 ft. dist. and raised a mound of earth - 4 ft. base 2 ft. high N. of cor. Land level alkali desert Soil clay and mud, soft and sticky 4 th rate No timber Low, thorny shrub undergrowth; scattering
--------	--

	April 12, 1903 at 44°31' p.m. I set off 41°22'35"N on the lat arc 8°33' N. on the decl. arc and determine a true meridian with the solar at the cor. of recs. 4-5-32 and 33. Then I run S 89°37'W bet. recs. 5 and 32 Over flat alkali desert land
4005	The 14 rec. cor. as found: a stake 3 ft. long 2 1/2 in square faintly marked 14 S. and lying on a low mound of earth Set a quartzite stone 17x8x6 in. 11 in. in the ground for 14 rec cor. marked 14 on N. face: dig pit 18x18 x12 in. E and W. of stone 3 ft. dist. and raised a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. Olongoids of stone drive old stake cor. firmly in the ground
8018	The cor. of recs. 5-6-31 and 32 as found: a stake 3 ft. long 2 in. square faintly marked with 1 and 6 notches on opposite edges, and lying on a low mound of earth in which I dig but find no deposit:- Set a siliceous limestone 17x9x6 in. 11 in. in the ground for cor. of recs. 5-6-31 and 32 marked with 5 notches on E and 1 notch on W. edges; dig pit 18x18x12 in. in each rec. 6 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. - Olongoids of stone drive old stake cor. firmly in the ground Land level alkali desert Soil clay and mud, soft and sticky 4 th rate No timber Low thorny shrub. undergrowth -

	S. 89°41'W bet. recs. 6 and 31
4010	The 14 rec. cor. as found: a stake 3 ft. long 2 in square faintly marked 14 S. and lying on a low mound of earth. - Set a siliceous limestone 18x8x6 in. 12 in. in the ground for 14 rec cor. marked 14 on N face: dig pit

Resurvey of N. Body. T 7 N 12 W

chain	18x18x12 in Grand m of stone off dist. and raise a mound 3 $\frac{1}{2}$ ft. base 15 ft high N. of cor. Place old stake cor. alongside of stone Thence S runs N. 89° 41' W.
39,61	The cor. of townships 7 and 8 N range 16 and 17 W. as heretofore described Land level alkali desert. Soil clay & sterile. No timber Low thorny shrub undergrowth-

April 12, 1900

General Description

For general descriptions see notes of subdivision of this township Book "Z".

Andrew P. Hanson
U.S. Asst. Surveyor.

Volume

#

R0301

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
showing the respective capacities in which they acted:

....., Chairman.

....., Chairman.

....., Moundman.

For final affidavits see book C. H. M. P. D., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted United States Deputy Surveyor, in surveying all
those parts or portions of the
..... of the
meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chairman.

....., Chairman.

....., Moundman.

For final affidavits see book C. H. M. P. D., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this
day of 180 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of the day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

John C. HEMPHILL
of the _____

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah March 31, 1904
The foregoing field notes of the survey of *The Ninth Township of
Township of Ninth Range 16 West of the Salt Lake
Base & Principal Meridian, Utah*

executed by *Andrew P. Dawson*,
under his contract No. 261, dated March 18, 1903, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

Edward J. Anderson
United States Surveyor General.

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BOOK A-301

L.H.

FIELD NOTES

OF THE ^{RE} SURVEY OF THENorth BoundaryofTownship N^E 6 North Range W^E 18 Westof the Salt Lake Base and Meridian,
Utah

AS SURVEYED BY

Andrew P. Hamor, United States Deputy Surveyor,

Under his Contract No. 201, dated March 18, 1903

Resurvey commenced April 13., 1903

Resurvey completed April 13., 1903

6-151

high 1-74-22 ✓ 6' 0" 7"

low - 4-06-52 ✓

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann - Chairman

R. J. Friseth - - Chairman

J. F. Hoffmann - - Monadawan

Frank Hoffman Jr. - - Monadawan

R. J. Friseth - - Comman

Frank Hoffman Jr. - - Axman

B. R. Lawrence - - Flagman

To preliminary officers we look G. J. M. P. W.

BOOK A-301

INDEX DIAGRAM.

Township....., Range.....

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19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

, Chainman.

, Chainman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

, Moundman.

, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

, Axman.

, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



351

Survey of N. Body T.G.N 18 W

chain

Survey commenced April 13, 1903 and executed with a W & L. E. Gurley light mountain transit with solar attachment. -

Note: For further description of the instrument and test of adjustments see Book A. of the survey under date of April 9, 1903, and being confident the instrument still remains in proper adjustment I consider it unnecessary to repeat the test at this time. -

From the cor. of Tps. 6 and 7 N R^E 17 and 18 W. as heretofore described, I retrace

West on the N. bdy. of T.G.N R18 W. noting the distance and falling at each cor. and at 480, 69 chs. fall 6.20 chs. N. of the cor. of Tps. 6 and 7 N R^E 18 and 19 W. - The above line being deficient in alignment and measurement and the corners not well established I make the following resurvey. - I begin at the cor. of townships 6 and 7 N ranges 18 and 19 W. as found; a limestone 18x9x6 in. set 4 in. in the ground, markings on each cor. indistinct and partly sealed off; a few stones surrounding the cor. -

I reset stone 12 in. in the ground for cor. of Tps. 6 and 7 N R^E 18 and 19 W. marked T.7 N. on N.E. R18 W. on S.E. T.6 N. on S.W. and R19 W. on NW faces with a notation on each edge; raised a mound of stones 2 ft. base 1 $\frac{1}{2}$ ft. high S. of cor. Pits impractical. -

Thinner I run

40,05

N. 88° 36' E. bet. sec. 6 and 31. - descending gradually the 1/4 sec. cor. as found; a small stone disintegrated which I replace with a quartzite stone 18x8x6 in. set 12 in. in the ground and marked 1/4 on N. face; from which

The original bearing trees found in place are A cedar 10 in. diam. blazed and scribed 14 S. 31 B.T. bears North. 2 $\frac{1}{2}$ lbs. dist.

A cedar 12 in. diam. blazed and scribed 14 S. 6 B.T. bears S 45° W. 30 lbs. dist.

Thinner I run N. 89° 18' E.

4,62
30,50

Old road bear northward and cont'd by

Dry wash drs. N. 30° E. - Thinner according gradually

40,10

This cor. of secs. 5-6-31 and 32 as found; a quartzite stone firmly set, 8x8x6 in. above ground; markings

Survey of N. Bdy. T. & R. 18 M.

	<p>faint but decernible. - I recut 1 notch on W and 6 notches on E. edges; raised a mound of stones 2 ft. base 15 ft. high N. of cor. Pits impracticable</p> <p>Land, sloping, rolling bench</p> <p>Soil, gravelly clay wash 3rd rate</p> <p>Timber, scattering bunches of scrubby cedar</p> <p>Low sage undergrowth -</p> <p>April 13: The sky being overcast during the noon hour I was unable to observe the sun while on the meridian</p>
40,10	<p>N. 89° 17' E. betw. 3 and 32</p> <p>The 44 acs cor. as found; a limestone 8x8x5 in. above ground firmly set and marked 1/4 in N. face; I dig pits 18x18x12 in E and W. of stone 8 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. -</p>
76,00	<p>Foot of mountain bears N and S. - Begin abrupt ascent</p> <p>Enter mountainous land</p>
80,10	<p>The cor. of secs. 4-5-32 and 33 as found: A limestone 26x18x15 in set in a small mound of stones on rocky surface markings nearly obliterated; I cut 2 notches on W and 4 notches on E. edges and raise a mound of stones 2 ft. base 1 1/2 ft. high W. of cor.</p> <p>Pits impracticable. -</p> <p>Land sloping broken bench and steep mountain side</p> <p>Soil gravelly wash and, barren limestone 4th rate</p> <p>No timber. -</p> <p>Mountainous land 4.10 elev. -</p>
39,89	<p>N. 89° 34' E. betw. secs. 4 and 33</p> <p>Over mountainous land</p> <p>Ascending on S.W slope</p> <p>The proportionate distance cor. not found:</p> <p>Set a limestone 18x9x6 in. 12 ins. in the ground for 44 acs. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. -</p> <p>Pits impracticable. -</p>
63,00	<p>Top of mountain bears N. and S. about 600 ft above bench</p> <p>Begin abrupt descent over precipitous limestone ledges</p>
78,00	<p>Foot of ledges bears N and S 550 ft. below top</p> <p>Descending gradually to</p>
79,78	<p>The cor. of secs. 3-4-33 and 34 as found; a limestone</p>

Precisely of N. Bdy. T. 6 N. R. 8 W.

Claims	<p>14x8x6 in. above ground firmly set and properly marked. I raise a mound of earth 2 ft. base 1$\frac{1}{2}$ ft. high N. of cor. Pits impracticable.</p> <p>Land mountainous, steep slopes Soil barren limestone +$\frac{1}{2}$ ratio Timber, a few scrubby cedar scattering Mountainous land 79.78 chs.</p>
40.14	<p>N. 89° 0' E. bet. sec. 3 and 34</p> <p>Over mountainous land</p> <p>Descending on rolling slope</p> <p>The $\frac{1}{4}$ sec. cor. as found; a quartzite stone firmly set 8x8x5 in. above ground and marked indistinctly on N. face. - I mark $\frac{1}{4}$ on N. face; dig pit 18x18x12 in. E. end. ev. of stone 3 ft. dist. and raise a mound of earth 3$\frac{1}{2}$ ft. base 1$\frac{1}{2}$ ft. high N. of cor. -</p> <p>Thence I run N 88° 31' E</p>
50.00	<p>Foot of slope bears N. and S. 170 ft. below sec. cor.</p> <p>Leave mountainous land and</p> <p>Enter level land - bears N. and S.</p>
40.00	<p>The cor. of sec. 2-3-34 and 35 as found; a quartzite stone firmly set 6x5x5 in. above the ground and properly marked. -</p> <p>I dig pit 18x18x12 in in each sec. 5$\frac{1}{2}$ ft. dist. and raise a mound of earth 14 ft. base 2 ft. high N. of cor.</p> <p>Land mountainous slopes, and level</p> <p>Soil gravelly rock and clay +$\frac{1}{2}$ ratio</p> <p>No timber. -</p> <p>Mountainous land 50.14 chs.</p>
40.25	<p>April 13: At 44° 12' mpm, I set off 41° 17' 22" N on the lat. arc. 80° 55'. Now the decl. arc and determine a true meridian with the solar at the cor. of sec. 2-3-34 and 35. Thence I run N. 89° 17' E. bet. sec. 2 and 35.</p> <p>Over level land</p> <p>The $\frac{1}{4}$ sec. cor. as found; a quartzite stone 16x9x4 in. marked $\frac{1}{4}$ and lying on top of ground. -</p> <p>Reef stone 11 in. in the ground from $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pit 18x18x12 in. E.</p>

Survey of N 13dy. T C N 12 15 W.

claims	and W. of above off. dist. and raised as mound of earth 3½ ft. base 15 ft. high N. of cor.
80,37	The cor. of secs. 1-2-35, and 36 as found; a quartzite stone 7x6x5 ins. above ground, firmly set and properly marked; dig pit 18x18x12 ins. in each sec. 5½ ft. dist. and raised as mound of earth - 4 ft. base 2 ft. high N. of cor.
	Land level soil clay and, some alkali 3 rd rate No timber Low thorny shrub undergrowth -
	N. 89° 40' E bet. secs 1 and 36
	Over level land
4912	The ¼ sec. cor. as found; a dark porphyry stone 7x6x 5 ins. above ground firmly set and properly marked; dig pit 18x18x12 ins. E and W. of stone 3 ft. dist. and raised as mound of earth - 3½ ft. base 1½ ft. high N. of cor.
6000	Entire delta of Grouse Creek bears N. and S. and Dense undergrowth -
7245	Mouth of Grouse Creek 4 lbs wide flows S.
73,10	Mouth of Grouse ^{creek} 4 lbs wide flows S.
80,20	The cor of Tps. 6 and 7 N. R. 17 and 18 W as heretofore described. -
	Land level soil clay and, alluvial wash 3 rd and 1 st rate No timber. -
	On last 20.20 chs. rank growth of thorny shrub & to 6 ft. high. -
	Dense undergrowth 20.20 chs. -

April 13, 1903

For general description see notes of subdivision of this
Twp. Book A

Andrew P. Hanson

U.S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew P. Hansen, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of N. bdy. T. 7 N. R. 17 W. and 17 W. - N. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W. Salt Lake Base and Meridian showing the respective capacities in which they acted:

J. F. Hoffmann, Chainman.
R. J. Fraiseth, Chainman.
J. F. Hoffmann, Moundman.
Frank Hoffman Jr., Moundman.
R. J. Fraiseth, Axman.
Frank Hoffman Jr., Axman.
B. R. Lawrence, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew P. Hansen, United States Deputy Surveyor, in surveying all those parts or portions of the N. bdy. T. 7 N. R. 16 and 17 W. - N. bdy. T. 7 N. R. 17 W. and N. bdy. T. 6 N. R. 18 W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

J. F. Hoffmann, Chainman.
R. J. Fraiseth, Chainman.
J. F. Hoffmann, Moundman.
Frank Hoffman Jr., Moundman.
R. J. Fraiseth, Axman.
Frank Hoffman Jr., Axman.
B. R. Lawrence, Flagman.

Subscribed and sworn to before me this twentieth day of July, 1903, 189.



Miss Koenig
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew P. Hanson

United States Deputy Surveyor, do

solemnly swear that, in pursuance of a contract received from Edward H. Anderson,
United States Surveyor General for The District of Utah, bearing date of the
10th day of March 1903, 1803, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for Utah, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of The North Boundary 57 W. R. Range 4,
W. Sec. 17, T. 7 N. and N. 16, M. 18 W.

of the Salt Lake

Baseline meridian, in the State of Utah, which are represented in the
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for Utah and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Andrew P. Hanson

United States Deputy Surveyor.

Subscribed by said Andrew P. Hanson and sworn to before me }
this 6th day of January, 1904 }

SEAL

Edward H. Anderson
U.S. Surveyor General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 31, 1904

The foregoing field notes of the survey of The North Boundary of
Township 6, North Range 18, West of the Salt Lake
Baseline Meridian, Utah

executed by

Andrew P. Hanson

under his contract No. 261, dated March 18, 1903, 1803, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
resurveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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JAN 6 1904

BOOK A-301

FIELD NOTES

OF THE ^{RE} SURVEY OF THE

Guide Meridian

through Township 6 North

between Range 18 and 19 West

of the Salt Lake Base and Meridian,
Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1803

Survey commenced April 14, 1803

Survey completed April 14, 1803

6-101

height - 1-01-24 ✓

low - 5-01-24 ✓ 6-02-48

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann - - - Chairman

R J Friseth - - - Chairman

Frank Hoffmann Jr. - - - Chairman

B R Lawrence - - - Chairman

J F Hoffmann - - - Moderator

Frank Hoffmann Jr. - - - Moderator

R J Friseth - - - Axeman

Frank Hoffmann Jr. - - - Axeman

Frank Styde - - - Flagman

BOOK A-301

INDEX DIAGRAM.

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, J. F. Hoffmann, R. J. Friseth, Frank Hoffmann Jr. and B. R. Lawrence, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Guide Meridians through T. 4 S., G. N. bet. R^o 18 and 19 N. of the Salt Lake Base
& Meridian Patch

J. F. Hoffmann, Chairman.

R. J. Friseth, Chairman.

Subscribed and sworn to before me this

day of April 1903, 80



Frank Hoffmann Jr. Chairman
} B. R. Lawrence, Chairman
} Sam Raney

Notary Public

WE, J. F. Hoffmann and Frank Hoffmann Jr., do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Guide Meridians through T. 4 S., G. N. bet. R^o 18 and 19 N. of the Salt Lake Base
& Meridian Patch

J. F. Hoffmann, Moundman.

Frank Hoffmann Jr., Moundman.

Subscribed and sworn to before me this

day of April 1903, 80



Sam Raney
} Notary Public

WE, R. J. Friseth and Frank Hoffmann Jr., do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Guide Meridians through T. 4 S., G. N. bet. R^o 18 and 19 N. of the Salt Lake Base
& Meridian Patch

R. J. Friseth, Axman.

Frank Hoffmann Jr., Axman.

Subscribed and sworn to before me this

day of April 1903, 80



Sam Raney
} Notary Public

I, Frank Hyde, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Guide Meridians through T. 4 S. and G. N. bet. R^o 18 and 19 N. of the Salt Lake Base
& Meridian Patch

Frank Hyde, Flagman.

Subscribed and sworn to before me this

day of April 1903, 80



Sam Raney
} Notary Public

My Commission expires August 12th 1903

Resurvey of Guide Meridian through T. G.N.R. 18 and 19 W.

chain Survey commenced April 14, 1903 and executed with a H and L E Gurley light mountain transit with solar attachment. —

Notic: - For further description of the instrument and test of adjustments see Book "A" of this survey under date of April 10, 1903, and being confident the adjustments still remain satisfactory and serve so for the reason that I have carried the line throughout the survey by fore-and-back sights I consider it unnecessary to repeat the test at this time. —

From the cor. of Tps 6 and 7 N R. 18 and 19 W as heretofore described I retrace

South on the Guide Meridian through Tp G.N.R. 18 and 19 W. noting the distance and falling at each cor. and at 462.54 chs. fall 5.112a.n. of the cor. of Tps. 5 and 6 N. 18 and 19 W.; The whole line being faulty in alignment and measurement and the corners nearly obliterated I make the following resurvey. — now obscured no observation obtainable

I begin at the cor. of Townships 5 and 6 north Range 18 and 19 W. as found: a hem cedar stake 2 ft. long 1½ in. square set 6 in. in the ground surrounded by a few small stones and marked with a notch on each edge;

Set a granite stone 17x7x6 in. 11 in. in the ground for reestablished cor of Tps 5 and 6 N R. 18 and 19 W. marked T.G.N. on N.E. R. 18 W on S.E., T. 5 N on S.W. and R. 19 W on N.W. faces, with a notch on each edge; dig pit 24x24x12 in N, E and W of stone 4 ft. deep and S. of cor. 8 ft. and raise a mound of earth and stones 3 ft. base 2½ ft. high 3 of cor.

Along side of stone drive old state cor firmly in the ground
Thence I run

N. 0° 6' W. bet. sec. 31 and 36

Over mountainous land

Ascending to

6,16 Top of slope bears. East W. 100 ft. above cor. — Enter rolling plateau strewn with glacial drift

36,00 Begin descent, bears E and W.

Enter bottom of gulch 60 ft. deep.

Resurvey of Guide Meridian through T. G.N. R² 18-19 west.

chain	Difference between measurements of 40.82 chs. by two sets of chainmen in 10 hrs; position of middle point By 1 st set 40.87 chs. By 2 nd set 40.77 chs. the mean of which is
+0.82	The 1 st rec. cor. as found; a granite stone 18x12x10 in. marked 1/4, lying on top of ground.- Re-set above 12 in in the ground for 1 st rec. cor. marked 1/4 on W. face; raised a mound of earth 2 ft. base 11/2 ft. high at. of cor. Pits impracticable
+0.85	Dry creek bed 6 ft. wide drains S. 75° E. Ascend
+3.40	Old Emigrant Road bears N.E. and S.W. at top of slope 125 ft. above creek bed. - Enter rolling bench land sloping E. -
	Difference between measurements of 81.24 chs by two sets of chainmen in 10 hrs; position of middle point By 1 st set 81.32 chs. By 2 nd set 81.16 chs. the mean of which is
+1.24	The cor. of sects. 25-30-31 and 36 as found; a limestone 16x8x5 in. lying flat on top of a low mound of earth and marked with one notch on S. and 3 notches on N. edge dig pit 18x18x12 in. in each rec. 5 1/2 ft. deep and raised a mound of earth - 4 ft. base 2 ft. high W. of cor. Land broken foothills and benches Soil gravelly wash and large boulders. 370 rate Timber: a few stunted cedars. scattering - <u>Mountain land 81.24 chs.</u> -
	S. 0° 38' E. bet. secs. 25 and 30 Over broken sloping bench land
	Difference between measurement of 40.16 chs. by two sets of chainmen in 8 hrs; position of middle point By 1 st set 40.20 chs.
	By 2 nd ch. +0.12 chs. the mean of which is
+0.16	The 1 st rec. cor. as found a hard sandstone 6x6x6 in. above ground firmly set and faintly marked 1/4 on W. face Remark: stone 1/4 on W. face; dig pit 18x18x12 in. base 5 ft. of stone 3 ft. deep and raised a mound of earth - 8 ft. base 1 1/2 ft. high W. of cor. -
+2.35	Dry wash drains E. in hollow 75 ft. deep.
+4.10	Stream 2 lbs. wide flows. S. 75° E. in hollow 60 ft. deep

Survey of Guide Meridian through T.G.N. Oct. R² 10² 1911.

Distance	Difference between measurements of 80.10 cm by two sets of chainmen is 10 cm.; position of middle point By 1 st set. 80.05 cm. By 2 nd set. 80.15 " the mean of which is
80.10	The cor. of sec. 19-24-25 and 30 as found; a limestone 24x12x8 in lying on top of ground, marked with 2 and 4 notches on opposite edges: Rest about 18 in. in the ground for cor. of sec. 19-24-25 and 30 marked with 2 notches on S. and 4 notches on N. edge; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. high 2 ft. high W. of cor. Land, rolling, broken bench Soil gravelly cor. 3 1/2 rate Timber: a few scrubby cedars scattered
April 14:	The sky being overcast during the noon hours I was unable to observe the sun while on the meridian.-
40.30	40°3' E., bet. secs. 19 and 24 Over rolling bench land Difference between measurements of 40.30 cm. by two sets of chainmen is 6 cm.; position of middle point By 1 st set 40.27 cm. By 2 nd set 40.33 cm. the mean of which is The 4th all cor. as found: a cedar stake 2 1/2 ft. long 2 in square marked 44 S, lying on a low mound of earth. - Set a nailstone 17x8x4 in. 11 in. in the ground for 1/2 sec. cor. marked 34 on W. face; dig pit 18x18x12 in. S. and S. of stake 3 ft. dist. and raised a mound of earth 3 1/2 ft. high 1 1/2 ft. high W. of cor. A cedar tree 8 in. diam. bears. S. 83°35' E. 56 lbs. dist. marked 44 S 19 B.T. Drive old stake cor. firmly in the ground beside of tree Dry wash drains E. in hollow 40 ft. deep. Dry wash drains E. in hollow 40 ft. deep. Dry wash drains E. in hollow 30 ft. deep. Difference between measurements of 80.36 cms. by two sets of chainmen is 12 cm. position of middle point By 1 st set. 80.30 cm. By 2 nd set. 80.42 cm; the mean of which is

Resurvey of Grid Meridian through T 6 N R 21 8 and 19 M.

chain	
80.36	<p>Thw cor. of secs. 13-18-19 and 24 as found: a porphyritic rock. $18 \times 10 \times 6$ in. lying in a mound of stones; markings faintly discernible. —</p> <p>Reset stone 12 in. in the ground for cor. of secs. 13-18-19 and 24 marked with 8 notches on S. and N. edges: raised a mound of stones 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor.</p> <p>Pits impracticable. —</p> <p>Land rolling bench</p> <p>Soil gravelly wash 3rd rate</p> <p>Timber, a few scrub cedar, scattering</p>
40.55	<p>N. 0° 5' W. bet. secs. 13 and 18</p> <p>Difference between measurements of 40.55 chs. by two sets of chainmen in 10 fkr.; position of middle point</p> <p>By 1st set 40.60 chs.</p> <p>By 2nd set 40.50 chs. the mean of which is</p> <p>The 1/4 sec. cor. as found: a stone much disintegrated lying in small mound of stones; no markings to be found. —</p> <p>Set a gray porphyritic stone $18 \times 6 \times 6$ in. 12 in in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pit $18 \times 18 \times 12$ in. N. and S of stone 3 ft. dist. and raise a mound of earth 3$\frac{1}{2}$ ft. base 1$\frac{1}{2}$ ft. high W. of cor.</p>
51.95	<p>Wash drains E. in hollow 40 ft. deep.</p> <p>Difference between measurements of 51.95 chs. by two sets of chainmen in 8 fkr. position of middle point</p> <p>By 1st set 50.81 chs.</p> <p>By 2nd set 50.73 chs. the mean of which is</p> <p>The cor. of secs. 7-12-13 and 18 as found: a quartzite stone $18 \times 9 \times 8$ in. lying on top of ground. and faintly marked with 2 and 4 notches on opposite edges. —</p> <p>Reset stone 12 in. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges: raised mound of stones 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor. Pits impracticable. —</p> <p>Land rolling bench</p> <p>Soil gravelly wash. 3rd rate</p> <p>Timber, scrub cedar scattering</p>
80.77	<p>N. 0° 18' W. bet. secs. 7 and 12</p>

3

Recovery of Guide Meridian through T G N R^E 18 and 19 W.

	Oven rolling slope
22,50	Dry wash in hollow 35 ft. deep drains E. Difference between measurements of 39.97 cm by two sets of chainmen is 6 cm.; position of middle point By 1 st set 39.94 cm. By 2 nd set 40.00 cm. the mean of which is
39.97	The 1/4 sec. cor. as found: a quartzite stone 17 x 9 x 6 in standing in a small mound of stones; no marking discernible.— Bleach stone 11 in in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised as mound of stones 2 ft. base 15 ft. high 15 ft. high 15 ft. of cor. Pitt impracticable Difference between measurements of 79.97 cm by two sets of chainmen is 8 cm.; position of middle point By 1 st set 79.93 cm.
79.97	By 2 nd set 80.01 cm; the mean of which is The cor. of sec. 1-6-7 and 12 as found a sandstone 18 x 12 x 6 in. lying on top of ground, and marked with 1 and 3; another on opposite edge: Bleach stone 12 in. in the ground for cor. of sec. 1-6-7 and 12 marked with 1 notch on N and 6 notches on S. edges; raised as mound of stones 2 ft. base 15 ft. high 15 ft. of cor. Pitt impracticable This cor. stands in bottom of a hollow 30 ft. deep draining E. Land rolling bench Soil gravelly with sand rads Timber, scrub cedar scattering

	N. 0° 10' W. bet. sec. 1 and 6.
	Oven rolling surface
17,88	Old Emigrant Road bears S 15° E and N 15° W. Difference between measurements of 40.10 cm. by two sets of chainmen is 12 cm.; position of middle point By 1 st set 40.04 cm.
40,10	By 2 nd set 40.16 cm the mean of which is The 1/4 sec. cor. as found: a sandstone 12 x 9 x 6 in. lying in a small mound of stones and marked fairly 1/4 on W. face. Bleach stone 8 in in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised as mound of stones 2 ft. base 15 ft.

Recovery of Guide meridian through T.G. bch. R^E 18 and 19 W.

chainage	high w. of cor. - Rita impracticable Difference between measurements of 80.10 chs. by two sets of chainmen in miles; position of middle point By 1st set. 80.13 chs. By 2nd set. 80.07 chs; the mean of which is The cor. of longitudinal C and T north ranges 18 and 19 west as heretofore described. - Land rolling sloping bench Soil gravelly wash 3rd rate - Timber scrubby cedar scattering - -
80.10	April 14: at 4 ^h 56 ^m p.m., I set off 41°17' 22" N. on the lat. arc 9°18' "N. on the decl. arc and at this cor. determined a meridian with the solar, and marked a point thereon a stone firmly set in the ground 5' chs. S. of my station. - At 8 ^h 32 ^m p.m., I set I observe Polaris in accordance with instructions in the manual and mark a point in the line thus determined on a peg driven in the ground 5' chs. N. of the instrument. - Astron. corr. of obs., April 15 ----- 8 ^h 32 ^m U.C. Polaris April 14 23° 32' + ✓ Solar Aug. of Pol. at obs. - - - - 8 ^h 40 ^m ✓ Azimuth of Pol. at obs. - - - - 1° 12' W. ✓ April 14, 1903

April 15: At 6^h 50^m a.m., I set I lay off the azimuth
of Polaris 1° 12' in the east and mark the meridian
thus determined by cutting a small groove in the
stone set April 14, on which the meridian falls 0.5 in.
west of the mark determined by the solar. -
At 7^h 0^m a.m., I set off 41°17' 22" N. on the lat.
arc 9°30' 30" N. on the decl. arc and mark a point in the
meridian determined by the solar by a groove on the stone
already set 5' chs N. of my station; this mark falls 0.5
in west of the meridian determined by the Polaris
observation. -

The solar apparatus by p.m. and a.m. observations,
defines position for meridians respectively within 1'
of the meridians established by the Polaris observation;
therefore I conclude that the adjustments of the
instrument are satisfactory. -

Resurvey of Guide roadsides through T.G.R. Oct. 18 and 1911.

Planis

April 15, 1903

General Description

For general description see field notes of resurvey
of T.G.R. 1818 at Berk R.

Andrew P. Johnson
U.S. Geol. Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____
_____, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

... Chainman.

..., Chairman.

—, Moundman.

... Moundman.

... , Arman.

... , *Lebanon.*

... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

..... United States Deputy Surveyor, in surveying all those parts or portions of the

, of the

..... meridian, of which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

General for

, Chairman.

, Chairman.

, Moundman.

, Moundman.

, *Axman.*

Aman.

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }
.....



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

Fairfield affidavits see book J. pp 44 MR 1897

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Sault Ste. Marie, March 31, 1904

The foregoing field notes of the survey of _____
Township 6 North, Section 19, Range 18 & 19 West
of the Sault Ste. Marie Base & Meridian, _____

executed by _____
under his contract No. 261, dated March 18, 1903, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-301

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FIELD NOTES

L.H.OF THE ^{re} SURVEY OF THE

Guide Meridian

Through Township No. 5 North -

Between Range No. 18 and 19 W.

of the Salt Lake Bar and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189-

Survey commenced April 15, 1903, 189-

Survey completed April 16, 1903, 189-

6-151

High - 2-71-43 ✓
low - 3-11-88 ✓ 6-03-31

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann - - - Chairman

R. J. Friseth - - - Chairman

Frank Hoffmann Jr. - - - Chairman

B. R. Lawrence - - - Chairman

J. F. Hoffmann - - - Vice-Chairman

Frank Hoffmann Jr. - - - Member

R. J. Friseth - - - Axeman

Frank Hoffmann Jr. - - - Axeman

Frank Hyde - - - Flagman

For preliminary affidavit see book of Dr. G. M. R. W.

BOOK A-301

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____ solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____.

_____, Chainman.

_____, Chainman.

scribed and sworn to before me this _____
day of _____, 189 }



We, _____ and _____ solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____.

_____, Moundman.

_____, Moundman.

scribed and sworn to before me this _____
day of _____, 189 }



We, _____ and _____ solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____.

_____, Axman.

_____, Axman.

scribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 189 }



Resurvey of Guide Meridian through T. 5 N. R. 18 and 19 W.

chain Survey commenced April 15, 1903 and executed with a V & L C Survey light mountain transit with polar attachment. - The horizontal limb is provided with two double vernier placed off with reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. -

The instrument was examined, tested on the true meridians at Salt Lake City, found correct and was approved by the Surveyor General for Utah April 6, 1903. -

Note: For list of adjustments see end of field notes of resurvey of Guide meridian through T. 5 N. R. 18 and 19 W. Book 10: completed this day. -

I begin at the cor. of Twp. 5 and G. N. R. 18 and 19 W. as heretofore described.

Thence I run on retracement

South on the Guide Meridian through T 5 N RS 18 and 19 W., noting the distances and falling at each cor. and at 483.24 chn. fall 3.91 chn. W. of the Standard cor. of Twp. 5 N. R. 18 and 19 W.: The whole line being deficient in alignment and measurement and the corners poorly established I make the following resurvey. -

I begin at the standard cor. of township 5 N. range 18 and 19 West. as found; A quartzite stone 17x6x6 in. lying partly buried in the mud and salt. and marked faintly with 6 notches on each edge. Re-set stone 11 in. in the ground for standard cor. of Twp. 5 N. R. 18 and 19 W. marked S.C.T. 5 N. on N.R. 18 and 19 W. on N. face. with 6 grooves on N. G. and W. faces: dig pit 30x24x12 in. crosswise on each line E and W 4 ft. and N. of stone 8 ft. deep and raise a mound of earth 5 ft. base 2 1/2 ft. high N. of cor. Thence I run

N. 0° 46' W. bet. sec. 31 and 36

Over barren alkali desert

10.00 Leaves desert and enter rough broken bench land and dense undergrowth.

Thence over low mountain ridge and hollow trending north westward and south easterly.

Survey of Guide Meridian through T.S.W. bet. R^o 18 and 19 W.

Chain	Difference between measurements of 40.41 chs. by two sets of chainmen is 6 chs. position of middle point By 1 st set 40.38 chs. By 2 nd set 40.44 chs. the mean of which is
40.41	The 1 st rec. cor. as found; a quartzite stone 16x10x7 in. set 3 in. in the ground and properly marked. Rest above 11 in. in the ground for 1 st rec. cor. marked 14° on N. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Difference between measurements of 81.06 chs. by two sets of chainmen is 8 chs. position of middle point By 1 st set 81.02 chs. By 2 nd set 81.10 chs. the mean of which is
81.06	The cor. of accs. 25-30-31 and 36 as found; a quartzite stone 14x10x8 in. lying on top of ground and marked with 1 and 5 notches on opposite edges; Rest above 9 in. in the ground for cor. of accs. 25-30-31 and 36 marked with 1 notch on S and 5 notches on N. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land bare alkali desert and long narrow ridge and hollow soil sticky clay, and clay and gravelly wash 4 th ratio No timber
	Dense undergrowth of thorny shrub 3 to 5 ft. high
	Dense undergrowth 71.06 chs. —
	N. 1° 33' W. bet. accs. 25 and 30.
	Through dense undergrowth —
5.00	Begins gradual ascent on S.E. slope
34.70	Old Emigrant Road bears. S 25° W and N. 25° E.
	Difference between measurements of 40.10 chs. by two sets of chainmen is 6 chs. position of middle point By 1 st set. 40.13 chs.
	By 2 nd set 40.07 chs. the mean of which is
40.10	The 1 st rec. cor. as found; a quartzite stone 10x10x6 in. above ground, firmly set and properly marked; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable. —
	Difference between measurements of 80.38 chs. by two sets of chainmen is 10 chs. position of middle point By 1 st set. 80.43 chs.

Recovery of Grid Boundary Survey T. 3 S. R. 15 and 17 N.

chain 8038	<p>By 2nd ab. 80.33 cm. the mean of which is the cor. of accs. 15-20-25 and 30 as found; a quartzite stone 15x10x8 cm. lying on top of ground and scattered with 2 and 4 inch pieces of granite debris.</p> <p>Block above 12 cm. in the ground for cor. of accs 17-20-25 and 30 marked with a notch on S. end & another on E. Face, raised as a mound of stones 2 ft. high 15 ft. long 30 ft. of cor. Pits impracticable.</p> <p>Land sloping back with several ridges and hollows rending northward and south eastward</p> <p>Soil glacial drift, clay, gravel and large boulders.</p> <p>No timber</p> <p>Gravel undergrowth of grasswood and caribou.</p> <p>Gravel undergrowth - 8.038 cm.</p> <p>April 15: at this cor. I cut off 9' 3" W. on the left and at 11' 3" a m. I cut off toward the curve on the acc. side the resulting lat. is 41° 8' 46" N.</p>
1330	<p>W. 0° 19' N. bet accs. 19 and 24.</p> <p>Old Emigrant Road bears N. 91 and S. E.</p> <p>Difference between measurements of 40.44 cm. by two sets of chainmen in 12 cm. portion of middle point By 1st ab. 40.38 cm.</p> <p>By 2nd ab. 40.37 cm. the mean of which is</p>
8034	<p>The 44 acc. cor. as found; a quartzite stone 24x10x9 cm. lying on top of ground and scattered 44.</p> <p>Block above 18 cm. in the ground for 44 acc. cor. marked 44 acc. 44 face; raised as a mound of stones 2 ft. high 15 ft. long m. of cor. Pits impracticable.</p> <p>Difference between measurements of 80.90 cm. by two sets of chainmen in 8 cm. portion of middle point By 1st ab. 80.86 cm.</p> <p>By 2nd ab. 80.87 cm. the mean of which is</p>
8030	<p>The cor. of accs. 13-15-19 and 30 as found; a quartzite stone 10x8x7 cm. also ground firmly set and perfectly smoothed. Face as a mound of stones 2 ft. high 15 ft. long m. of cor. Pits impracticable.</p> <p>Land sloping back with several ridges and hollows rending northward and south eastward</p> <p>Soil glacial drift, gravel and boulders.</p>

5

Resurvey of Guide Meridian through T 5 N Det. R 218 and 19 W.

chains	N 1° 18' E bet. secs. 19 and 18 Ascending gradually on broken slope Difference between measurements of 41.0.32 chs by two sets of chainmen is 4 lbs. position of middle point By 1st set. 40.34 chs. By 2nd set. 40.30 chs. the mean of which is
40.32	The 14 sec. cor. as found; a quartzite stone 10x9x8 in. above ground firmly set and fairly marked 14 on W. face Remark above 14 on W. face and raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pts impracticable Difference between measurements of 80.62 chs by two sets of chainmen is 6 lbs. position of middle point By 1st set. 80.65 chs. By 2nd set 80.59 chs. the mean of which is
80.62	The cor. of secs. 7-12-13 and 18 as found, a quartzite stone firmly set 9x8x6 in. above ground and properly marked Raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pts impracticable Land sloping bench, broken and rolling. Soil glacial drift, gravel and large boulders, sparse. No timber.—
59.12	April 15: At 3 rd 31 st pm, 1917 I set off 41° 10' 30" N. on the lat. arc 9° 37' N over the decl. arc and determine a meridian with the solar at the cor. of secs. 7-12-13 and 18 thence I run N. 0° 5' 5" W. bet. secs. 7 and 12 Ascending gradually on broken slope Difference between measurements of 40.30 chs. by two sets of chainmen is 6 lbs. position of middle point By 1st set. 40.27 chs. By 2nd set. 40.33 chs. the mean of which is
40.30	The 14 sec. cor. as found; a quartzite stone 8x8x7 in. above ground firmly set, with marking fairly discernible Remark above 14 on W. face and raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pts impracticable.— Dry wash drain S. 65° E
59.12	Difference between measurements of 80.36 chs. by two sets of chainmen is 10 lbs. position of middle point By 1st set. 80.31 chs. By 2nd set. 80.41 chs. the mean of which is

Survey of Guide Meridian through T 5 N sec. R^o 18 and 19 W.

chains	
80.36	The cor. of accs. 1-6-7 and 12 as found; a stationary granite stone 30x24x15 in. above ground properly marked. - Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land sloping bench, rough, rolling Soil gravel and boulders 3rd rate Timber, a few stunted cedars, scattering
40.20	N. 0°33' W. bet. accs. 1 and 6 Over mountainous land Descending broken slope Difference between measurements of 40.20 chs. by two sets of chainmen is 8 chs.; position of middle point By 1 st set 40.24 chs. By 2 nd set 40.16 chs. the mean of which is
59.70	This 14 sec cor. as found; a stationary quartzite boulder 18x14x10 in. above ground properly marked Raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
68.00	Dry wash 20 ft. deep drains S.E. Dry wash 16 ft. deep drains S.E. Difference between measurements of 79.99 chs. by two sets of chainmen is 6 chs.; position of middle point By 1 st set 80.02 chs.
79.99	By 2 nd set 79.96 chs. the mean of which is The cor. of Tps. 5 and 6 N. R ^o 18 and 19 W as heretofore described. — This cor. stands 400 ft. above cor. of accs. 7-12-13 and 18. Land broken slope Soil gravelly and large boulders 3rd rate Timber, scrub cedar scattering Mountainous land 79.99 chs. — <u>Note:</u> For test of adjustments of instruments see following book.—

April 15, 1903

Note: In accordance with my instruction I have now retraced all the adjoining boundaries of the older surveys, and as a basis for the projection of the new survey, obtain the following data...

Recovery of Guide Meridian through T 6 N Bds. RS 18 and 19 W

Latitude and departure of adjoining boundaries			
Line designated	Latitude N V S	Departure E S W	M.
Guide Meridian through T 5 N RS 18 and 19 W.	483.24	"	3.92
" " " T G N " " "	482.84	.05	
N. Bdy. T 6 N 18 18' W.	6.26	480.68	
Convergence " " " " 2 Standard		1.26	
N. Bdy. T 7 N 18 17 W.	479.32		5.09
" " " " " "	5.20	482.27	
Convergence " " " " 3 Standard		1.90	
N. Bdy. T 7 N 18 16 W	3.75	481.19	
Convergence " " " " 3 Standard		1.90	
Totals - - - - -	1460.32	.00	1449.25
Factors upon which to close survey	1460.32		1440.24
Run 1481 Far. N. E. through RS 18-17 & 16 W.			1440.00
" Random range bds. RS 15 & 16 W. - N.	1460.48		
Theoretical error in closings - -	0.10		0.24

From above table it is evident, that I may project the survey in accordance with "First Set of Instructions" commencing with the survey of the First Standard Parallel North:-

General Description

For general description see field notes of subdivision of T 5 N 18 18 W. Book

Andrew P. Stevens
U.S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

Safrial affidavits in book J 18 M P 18 M, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

Safrial affidavits in book J 18 M P 18 M, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

This final affidavit is made at Fort Verde, Arizona, March 18, 1904.

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valley Lake City, Arizona, March 31, 1904

In the County of Yavapai

The foregoing field notes of the survey of _____
Twp. 5 North between Ranges 18 & 19 West
of the Salt Fork Branch & Pinon Creek, _____

executed by _____, *Edward A. Anderson*,
under his contract No. 161, dated March 18, 1903, 189_____, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Edward A. Anderson

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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FIELD NOTES

OF THE SURVEY OF THE

*First Standard Parallel North**through**Range No 18 West*

of the *Salt Lake Base and Meridian,*
State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903

Survey commenced April 15, 1903

Survey completed April 16, 1903

B-161

low - 6-00-00 ✓

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann - Chairman

? R J Friseth

Frank Hoffmann Jr.

B R Lawrence

J F Hoffmann - Mammalman

Frank Hoffmann Jr.

? R J Friseth - Axeman

Frank Hoffmann Jr.

Frank Slyde - Flugman

BOOK A-301

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, J F Hoffmann, R J Friseth, Frank Hoffmann Jr., B P Lawrence

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

The First Standard Parallel North - through ranges 18-17 and 16 - west of the Salt Lake Base and meridian, Utah

J F Hoffmann, Chainman.

J F Friseth, Chainman.

Frank Hoffmann Jr. Chainman

B P Lawrence Chainman

Sam Raney

Notary Public

WE, J F Hoffmann and Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

The First Standard Parallel North - through ranges 18-17 and 16 - west of the Salt Lake Base and meridian, Utah

J F Hoffmann, Moundman.

Frank Hoffmann Jr., Moundman.

Subscribed and sworn to before me this

8th

day of April 1903,

Sam Raney

Notary Public

WE, J F Hoffmann and Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

The First Standard Parallel North - through ranges 18-17 and 16 - west of the Salt Lake Base and meridian, Utah

J F Friseth, Axman.

Frank Hoffmann Jr., Axman.

Subscribed and sworn to before me this

8th

day of April 1903,

Sam Raney

Notary Public

I, Frank Hyde, do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of The First Standard Parallel North - through ranges 18-17 and 16 - west of the Salt Lake Base and meridian, Utah

Frank Hyde, Flagman.

Subscribed and sworn to before me this

8th

day of April 1903,

Sam Raney

Notary Public

My Commission expires August 12th 1903.

First Standard Parallel North through Range 18 N

chain.

Survey commenced April 15, 1903 and executed with a W & L. E. Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two opposite verniers reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. -

The instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the Surveyor General for Utah April 6, 1903.

I begin at the standard end of township 5 North range 18 and 19 W. as heretofore described. Latitude $41^{\circ}06'56''N$ Longitude $113^{\circ}57'58''W$. -

In order to test the solar apparatus by comparing the results of observations on the sun, made during a.m. and p.m. hours, with a true meridian determined by observation on Polaris I proceed as follows. -

At 44^{min} p.m. 1st I set off $41^{\circ}6'56''N$ on the latitude $9^{\circ}39'W$ on the decl. arc, and mark the meridian thus determined with the solar, by a cross on a stone firmly set in the ground 5' due N. of the instrument. At 94⁵⁰ p.m., 1st I observe Polaris in accordance with instructions in the manual, and mark the line thus determined by a tick driven in a stake set in the ground 5' due north of my station. -

Astron. Inst. of obs. April 15 $9^{\circ}5' m$

U. C. Polaris Apr. 15 $\underline{23^{\circ}52.6'}$

Striking of Pol. at obs. $9^{\circ}12.6'$

Azimuth of Pol. at obs. $1^{\circ}3' W.$

April 15, 1903

April 16: At 7⁴ a.m., 1st I lay off the azimuth of Polaris $1^{\circ}3'$ to the east and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls. 0.4 in. east of the mark determined by the solar. -

At 7⁴ 30^{min} a.m., 1st I set off $41^{\circ}7'N$ on the lat. arc $9^{\circ}52'00''W$ on the decl. arc and mark the true meridian determined with the solar, by a cross on the stone already set 5' due N. of my station; this mark falls 0.4 in. east of the meridian established by the

First Standard Parallel North through Range 18 West.

chain	Polaris observation. -
	The solar apparatus by pm. and a m. observations, defines position for meridian about $0^{\circ}21''$ W. and $0^{\circ}21''$ E. of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instruments are satisfactory. -
	The magnetic bearing of the meridian at 7440 m. is $N 17^{\circ}50' W$, the angle thus determined gives the mag. decl. $17^{\circ}50' E$.
	From the standard cor. heretofore described I run East on S bdy sec. 31.
	Over flat alkali desert
0.25	Enter salty water 3 m. deep. bears N.E. and S.W.
39.00	Leave water bears. N.E. and S.W.
	Difference between measurements of 40.00 dm. by two sets of chainmen is 4 dm.; position of middle point By 1 st set 39.98 dm.
	By 2 nd set 40.02 dm.; the mean of which is
40.00	Deposit a quart of broken glass 12 in. in the ground for standard 1/4 acre cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high over deposit. -
	In E. pit drive a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked.
	S.C. 1/4 S. 31 on N. face. -
	Difference between measurements of 80.00 dm by two sets of chainmen is 2 dm.; position of middle point By 1 st set 79.98 dm.
	By 2 nd set 80.01 dm.; the mean of which is
80.00	Deposit a quart of broken glass 12 in. in the ground for standard cor of secs. 31 and 32; dig pit 24x18x12 in. crosswise on each bdy N.E. and W. of cor. 5 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.
	In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked S.C. T. 5 N R. 18 W on N.
	S.32 on E and
	S.31 on W. faces; with 1 groove on W. and 5 grooves on E. faces.
	Land flat alkali desert
	Soil clay and black mud soft and sticky, covered with brine and crust of salt. 4 ft. salt

First Standard Parallel North through Range 18 West

charine	No vegetation. Note:- Water same told in periodical and usually dries up in the late summer months. -
	East on S.bdy. rec. 32 Over flat alkali desert Difference between measurements of 4,000 chs by two sets of chainmen is 2 chs.; position of middle point By 1 st set 39.99 chs. By 2 nd set 40.01 chs., the mean of which is
4,000	Depositi a quart of broken glass 12 ins in the ground for standard cor. rec.; dig pit 18x18x12 ins. E and W of cor. 4 ft. dist; and raise a mound of earth 3½ ft. base 1½ ft. high over depositi. - In E pit drive stake 2 ft long 2 ins. sq. 12 ins. in the ground marked S.C. REC. 32 on N. face Difference between measurements of 8,000 chs by two sets of chainmen is 3 chs.; position of middle point By 1 st set 79.98½ chs. By 2 nd set 80.01½ chs., the mean of which is
8,000	Depositi a quart of broken glass 12 ins. in the ground for standard cor. of recs. 32 and 33; dig pit 24x18x12 ins. crosswise on each line N. E and W of cor. 5 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over depositi. - In E. pit. drive a redwood stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked S.C. T 5 N. R. 18 W. on N S 33 on E and S 32 on W face; will: - 2 grooves on W and 4 grooves on E. faces. -
	Land flat alkali desert Soil clay and black mud soft and very wet crust of salt 4 th rate No vegetation. -
	East on S.bdy. rec. 33 Over flat alkali desert Difference between measurements of 4,000 chs. by two sets of chainmen is 4 chs.; position of middle point.

First Standard Parallel North through Range 18 West

chains	By 1 st set 40.02 cha By 2 nd set 39.98 cha. the mean of which is
4,000	Set a quartzite stone 18x7x5 in. 12 in in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; dig pit 18x18x12 in. E and W of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. -- Difference between measurements of 8,000 cha. by two sets of chainmen is 3 cha.; position of middle point By 1 st set 39.98 1/2 cha.
8,000	By 2 nd set .80.01 1/2 cha.; the mean of which is Set a limestone 17x7x6 in. 11 in in the ground for standard cor. of secs. 33 and 34 marked S.C. on N. face with 3 grooves on E and W faces; dig pit 25x18x12 in. crosswise on each line E and W 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. -- Land flat alkali desert Soil clay with crust of salt, sticky & tenacious No vegetation. --
4,000	East on S. Bdy. rec. 34 Over flat alkali desert Difference between measurements of 4,000 cha. by two sets of chainmen is 6 cha.; position of middle point By 1 st set 40.03 cha. By 2 nd set 39.97 cha. the mean of which is
8,000	Set a limestone 17x7x6 in. 11 in in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dirt and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor Difference between measurements of 8,000 cha by two sets of chainmen is 2 cha.; position of middle point. By 1 st set 39.99 cha. By 2 nd set 40.01 cha. the mean of which is

First Standard Parallel North through Range 18 West.

	chain	Land flat alkali desert Soil clay, with crust of alkali, soft, sticky, granular No vegetation.
		April 16: At this cor. I set off $9^{\circ} 5' .5''$. Now divide are, and at 1.2. m. I mit observe the sun on the meridian the resulting lat. is $41^{\circ} 7' N.$
		East on S. bdy sec. 35 Over. flat alkali desert Difference between measurements of 40,00 chs by two sets of chainmen is 4 links; position of middle point By 1st set 39,98 chs
40,00		By 2nd set 40,02 chs the mean of which is Set a limestone 17x8x6 in. 11 in. in the ground for standard cor. sec. cor. marked S.C. 1/4 on N. face; dig pits 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high. N. of cor.
		Difference between measurements of 80,00 chs by two sets of chainmen is 2 links; position of middle point By 1st set 80,01 chs
80,00		By 2nd set 79,99 chs. The mean of which is Set a limestone 17x8x6 in. 11 in. in the ground for standard cor. of sec. 85 and 86 marked S.C. on N. face with S. grooves on W. and 1 groove on E. faces; dig pits 24x18x12 in. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil clay with crust of alkali, soft, sticky, granular No vegetation.
		East on S. bdy sec. 36 Over. flat alkali desert Difference between measurements of 40,00 chs. by two sets of chainmen is 5 links; position of middle point By 1st set 40,02 1/2 chs
40,00		By 2nd set 39,97 1/2 chs. The mean of which is Set a limestone 17x8x6 in. 11 in. in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; dig pits 18x18x12 in. E and W. of stone 3 ft. dist. and raise

First Standard Parallel North through Range 18 W.

chain as mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor
Difference between measurements of 80.00 chs. by two
sets of chainmen is 4 chs., position of middle point
By 1st set 80.02 chs.
By 2nd set 79.98 chs. the mean of which is
80.00 chs. of limestone 18 x 8 x 6 ins. 12 ins. in the ground
for standard cor. of townships. 5° N. ranges 17 and 18 W.
marked S.C. 5° N. on N.
17 W. on E. and
18 W. on W. faces.; with 6 grooves on N.E. and W. faces;
dig pits 30+24x12 ins. crosswise on each line E and W
4 ft. and N. of above 8 ft. dist.; and raised a mound of
earth 6 ft. base 2 $\frac{1}{2}$ ft. high N. of cor.
Land flat alkali desert
Soil clay with crust of alkali. soft, sticky & brittle
no vegetation
Note: For test of adjustments see following book
April 15, 1903

General Description

This line runs throughout over a bare trackless
alkali desert and the townships adjoining on
either side are of the same kind of land.—

Andrew P. Hanson

U.S. Army Surveyor

09

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

To final affidavit see back of J. H. S. R. C. W. _____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

To final affidavit see back of J. H. S. R. C. W. _____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____

day of _____, 189_____



BOOK A-301

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

Fairfield off Lake of the Woods J. S. R. 1890

of the _____

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valley Lake City Lake March 31 1904

The foregoing field notes of the survey of *the Fair Standard Parallel*
Half through Range 18 West of the Valley Lake Base
& Divide Line, Etc.

executed by *Andrew P. Hanson*
under his contract No. 261, dated March 18, 1903, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Edward H. Anderson

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-301

C.G.

FIELD NOTES

OF THE SURVEY OF THE

*First Standard Parallel North**through**Principle Meridian**Ranger 17 West**of the Salt Lake Base and Meridian,
State of Utah*

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1803

Survey commenced April 16, 1803

Survey completed April 17, 1803

6-101

*height - 2-71-00 ✓
low - 3-09-00 ✓ 6' 0" 0"*

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffman	Chairman
R J Fricoch	"
Frank Hoffman Jr	"
B P Lawrence	"
J F Hoffman	President
Frank Hoffman Jr	"
R J Fricoch	Personnel
Frank Hoffman Jr	"
Frank Hyde	Flagman

In fulfilling my official duties I look to you for help

BOOK A-301

INDEX DIAGRAM.

Township _____, *Range* _____

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this
day of , 189 }



First Standard Parallel North through Range 17 West

chain 40,000	Survey commenced April 16, 1903 and executed with a W & L G Gurley light mountain transit with solar attachment. — The horizontal arc is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the latitude and declination arcs. — The instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the Surveyor General for Utah April 6, 1903. — Note: - For test of adjustments reference is hereby made to the field notes of this line through range 18 N. Book "F" under this date, and being confident the adjustments still remain satisfactory I consider it unnecessary to repeat the test at this time. — At 3 ^h 10 ^m p.m., 7 m ^t I set off 41° 6' 56" N. on the lat. arc 19° 58' 00" N. on the decl. arc and determine a true meridian with the solar at the standard arc of Twp. 5 N R ^e 17 and 18 W as heretofore described. — Three Drums East on S. body, rec. 31 Over flat alkali desert Difference between measurements of 4000 chs by two sets of chainmen is 4 chs. position of middle point By 1 st set 39.98 chs By 2 nd set 40.02 chs the mean of which is Set a limestone 18x8x6 in. 12 in. in the ground for standard 1/4 sec cor. marked S.C. 1/4 on N. faces: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. height N. of cor. Difference between measurements of 80,00 chs. by two sets of chainmen is 2 chs. position of middle point By 1 st set 79.99 chs By 2 nd set 80.01 chs. the mean of which is Set a limestone 17x8x6 in. 11 in. in the ground for standard cor. of recs. 31 and 32 marked S.C. on N. faces with 1 groove on W and 5 grooves on E. faces: dig pit: 24x18x12 in. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth.
80,000	
120,000	
160,000	

First Standard Parallel North through Range 17 West

	4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil sticky clay and salt crust 4 ft. nati. No vegetation
4,000	<p>East on S. bdy. sec. 32.</p> <p>Difference between measurements of 4,000 cm. by two sets of chainmen in 2 cm. position of middle point:</p> <p>By 1st set 40.01 cm.</p> <p>By 2nd set 39.99 cm. the mean of which is</p> <p>Set of limestone 16x8x6 in. 11 in. in the ground for standard 14 acc. cor. marked S.C. 14 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. deep and raise a mound of earth. Base 1½ ft. high N. of cor.</p> <p>Difference between measurement of 8,000 cm. by two sets of chainmen in 3 cm. position of middle point</p> <p>By 1st set 80.015 cm.</p> <p>By 2nd set 79.985 cm. the mean of which is</p> <p>Set of limestone 16x9x6 in. 11 in. in the ground for standard cor. of sec. 32 and 33 marked S.C. on N. face with 2 grooves on N. and 2 grooves on E faces; dig pit 24x18x12 in. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. deep and raise a mound of earth 4 ft. base 2 ft. high N. of cor.</p> <p>Land flat alkali desert</p> <p>Soil sticky clay with crust of salt nati.</p> <p>No vegetation</p>
8,000	<p>East and S. bdy. of sec. 33</p> <p>Difference between measurements of 4,000 cm. by two sets of chainmen in 4 cm. position of middle point</p> <p>By 1st set 4002 cm.</p> <p>By 2nd set 39.98 cm. the mean of which is</p> <p>Set of dark phosphhyne stone 16x7x6 in. 11 in. in the ground for standard 14 acc. cor. marked S.C. 14 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. deep and raise a mound of earth. 3½ ft. base 1½ ft. high N. of cor.</p> <p>Difference between measurements of 8,000 cm. by two sets of chainmen in 4 cm. position of middle point</p> <p>By 1st set 8002 cm.</p>

3.

First Standard Parallel North through Range 17 west

Chain 8.00	By 2nd set 59.98 cm. the mean of which is set as limestone 16x8x6 in. 11 in. in the ground for. Standard cor. of arcs. 33 and 34 marked S.C. on N. face with 3 grooves on E. and W. faces, dig pit 24x18x12 in. crossing on each line E. and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. back 2 ft. high N. of cor. Land, flat alkali desert Soil sticky clay with salt crust 4" thick - No vegetation -
---------------	---

April 16, 1903

April 16: at 11⁴⁵ p.m., I observed Polaris
at lower culminations at the standard cor. of arcs.
33 and 34 as above described and mark a point
in the meridian thus established on a stake driven in
the ground 5' c.m. N. of my station. —

April 16 1903

April 17:

At 7⁴¹ 10²² a.m., I set off 41° 6' 36" N. on the lat.
arc 10° 18' N. on the decl. and mark a point in
the meridian determined by the solar on the stake
previously set 5' c.m. N. of my station; this mark
falls 0.6 in. E. of the meridian determined by Polaris
observation or within 1' of arc and I therefore
conclude the adjustments of the instruments are
satisfactory. —

East over S. by sec. 34

1.00	Leave alkali desert course northerly and easterly; enter sloping bench at foot of mountain. — according
3.00	Enter mountainous land course northerly and easterly
30.00	Bottom of hollow drain northerly Difference between measurements of 40.00 cm by two sets of chainmen in 10 sec. position of middle point By 1st set 39.95 cm.
40.00	By 2nd set 40.06 cm the mean of which is set a dark porphyry stone 18x11x9 in. 12 in. in the ground for. Standard 1/4 sec. cor. marked S.C. 1/4 on N. face raise a mound of stones 2 ft. back 1 1/2 ft. high N. of cor. Pit impracticable
51.00	Bottom of hollow drain southwesterly. —

4.

First Standard Parallel North through Range 17 West

chain 74.40	East on flat top of mountain course N. and S. 900 ft. above desert. - Difference between measurements of 80.00 cm by two sets of chainmen is 14.00 cm. position of middle point By 1st set 79.93 cm. By 2nd set 80.07 cm. the mean of which is
80.00	Set a dark porphyry stone 18x11x10 in 12 in in the ground for standard cor. of elev. 34 and 35 marked S.C. on N. face with 4 grooves on W. and 2 grooves on E. faces: raise a mound of stones 2 ft. back 1/2 ft. high N. of cor. Pits impracticable This cor. stands on top of main ridge of what is locally known as Silver Island an isolated, rocky, mountain rising abruptly from the desert Land, mountainous, steep, rugged slopes. Soil, rocky, eruptive slide rock mainly 4 ft. note No timber Low thorny shrub undergrowth - scattering Mountainous land 77.00 cm. -
2.00	East on S. by E. 35°
8.60	Over mountainous land Begin abrupt descent course N. and S. Bottom of gulch 100 ft. deep drains S. to S.E.
20.00	Begin abrupt ascent Top of spur runs S. 90 ft. above gulch. Begin descent on broken S.E. slope
40.00	Difference between measurements of 40.00 cm by two sets of chainmen is 16 cm. position of middle point By 1st set 40.08 cm. By 2nd set 39.92 cm. the mean of which is
42.90	Set a limestone 18x14x7 in. 12 in in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; raise a mound of stones 2 ft. back 1/2 ft. high N. of cor. - Pits impracticable Dry wash in bottom of gulch drains N 60° E. 500 ft. below spur. - Descending to
45.14	Top of spur runs N.E. 50 ft. high Begin gradual descent on broken N.E. slope

First Standard Parallel North through Range 17 West

chain	Difference between measurement of 80.00 dm. by two sets of chainmen in 14 lbs. position of middle point By 1 st set 80.07 dm. By 2 nd set 79.93 dm. the mean of which is.
80.00	Set a limestone 18x10x6 in. 12 in. in the ground for standard cor. of secs. 35 and 36 marked S.C. over N. face with 5 grooves on W. and 1 groove on E. faces: raise a mound of stones 2 ft. back 1½ ft. high N. of cor. Pits impracticable.- This cor. stands 650 ft. below ^{standard} cor. of secs. 34 and 35 - Land mountainous rugged slopes Soil rocky and gravelly of rate - No timber Low thorny shrub undergrounds - Mountainous land 80.00 dm. -
0.45	East over 5 bdy. rec. 36 Over mountainous land Descending gradually on rolling surface Dry wash drains N.E. 20 ft. deep in hollow Ascending
8.20	Rocky spur runs N. 20° E. 90 ft. high.- Descending rolling surface to - Difference between measurements of 40.00 dm. by two sets of chainmen in 8 lbs. position of middle point By 1 st set 39.95 dm. By 2 nd set 40.04 dm. the mean of which is
40.00	Set a limestone 17x9x7 in. 12 in. in the ground for standard 1/4 sec. cor. marked S.C. 14 over N. face: raise a mound of stones 2 ft. back 1½ ft. high N. of cor. Pits impracticable
54.25	Dry wash drains N.
74.00	Foot of mountain bears: northwesterly and south easterly 250 ft. below standard sec. cor. Leave mountainous land
	Enter alkali desert
	Difference between measurements of 80.00 dm. by two sets of chainmen in 6 lbs. position of middle point By 1 st set 79.97 dm. By 2 nd set 80.03 dm. the mean of which is.
80.00	Set a dark porphyry stone 18x7x6 in. 12 in. in the

First Standard Parallel North through Range 17 W.

Claims	ground for standard cor. of township 5 N. ranges 16 and 17 W. marked S.C.T 5 N on N. 16. W. on E and 17 W. on W. faces with G grove on N.E. and W faces; dig pits 30 x 24 x 12 in. crosswise on each line E and W. 4 ft. and N of about 8 ft. dist. and raise a mound of earth 5 ft. base 2½ ft. high N. of cor. Land mountainous and flat desert soil gravelly and rocky, and alkali clay $\frac{4}{5}$ rate no timber low thorny shrub undergrowth scattering Mountain land 74,000 acs.- For final test of adjustment - see the following book April 17, 1903
--------	--

General Description

The land on each side of this line is a desert waste of little value for any purpose. - The vegetation is exceedingly scant consisting of a thorny shrub on the mountain parts. - There is no water for many miles on either side. -

Andrew P. Garrison
U.S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS..

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

The final affidavit see book N. Y. S. M. P. 16. D.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

_____, meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

The final affidavit see book N. Y. S. M. P. 16. D.

_____, Axman.

_____, Axman.

_____, Flagman..

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

Final affidavit seal of G. S. M. R. P. H.

of the _____

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions; and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valley City, North Dakota, March 31, 1904

The Field Standard Parallel

North Boundary Range of West of the Valley City Base
and Grid, Valley City, North Dakota

executed by _____, *Audie W. Hanson*, dated _____, March 18, 1903, having been under his contract No. 261, dated _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. Knobell

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-301

FILE 1

JAN 6 1903

FIELD NOTES

M.J.B.

OF THE SURVEY OF THE

Fifth Standard Parallel North -

through

Range 16 West

of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903

Survey commenced April 17, 1903

Survey completed April 18, 1903

6-151

low - 6-00-00

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann ----- Chairman

R. J. Friseth ----- Chairman

Frank Hoffmann Jr. ----- Chairman

B. R. Lawrence ----- Chairman

J. F. Hoffmann ----- Monitorian

Frank Hoffmann Jr. ----- Monitorian

R. J. Friseth ----- Captain

Frank Hoffmann Jr. ----- Captain

Frank Hyde ----- Flagman

For preliminary affidavits see book F. Sp. & M.R.D.

BOOK A-301

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }

day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }

day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }

day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }

day of , 189 }



First Standard Parallel North through Range 16 West

Chain	Survey commenced April 15, 1903, and executed with a W. & L. E. Gulyay light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.
	The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah, April 6, 1903.
	Note: For test of adjustments reference is hereby made to the field notes of this line through R. 17 W., Book G., under this date, and being confident the instrument still remains in satisfactory adjustment I consider it unnecessary to repeat the test at this time.
	At 9457 m a.m., I set off $41^{\circ} 6' 56''$ N. on the lat arc $10^{\circ} 16'$ N. on the decl. arc and determine a meridian with the solar at the standard cor. of Twp. 5 N. R. 16 and 17 W. as heretofore described.
	Then I run
	East on S. side. sec. 01.
	Over flat alkali desert
	Differences between measurements of 40,00 chs by two sets of chainmen is 4 chs. position of middle point By 1 st set 3998 chs
40,00	By 2 nd set 40,02 chs. the mean of which is set a conglomerate limestone $17 \times 7 \times 5$ ins. 11 ins. in the ground for standard 14 sec cor. marked S.C. 14 on N. face: dig pit $18 \times 18 \times 12$ ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3.5 ft. base 15 ft. high N. of cor.
	Differences between measurements of 8000 chs by two sets of chainmen is 6 chs. position of middle point By 1 st set 79,97 chs.
80,00	By 2 nd set 80,03 chs. the mean of which is set a conglomerate limestone $17 \times 8 \times 5$ ins. 11 ins in the ground for standard cor. of sec. 31 and 32 marked S.C. on N. face with 1 groove on W. and 5 grooves on E. face: dig pit $24 \times 18 \times 12$ ins. crosswise on each line E and W. 3 ft. and N. of stone 7 ft. dist and raise a mound of

First Standard Parallel North through Range 16 West

	chainin	earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil sticky soft. clay and salt crust. 4 th rate. No vegetation
		East on S. bdy. sec. 32 Over flat alkali desert Difference between measurements of 40.000 cm by two sets of chainmen in 4 lbs. position of middle point By 1 st set 40.02 cm By 2 nd set 39.98 cm. the mean of which is
40,00		Set a limestone 17x7x6 in. 11 in. in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
77.20		Dry wash 10 ft. wide 2 ft. deep drains S. 20° E Difference between measurements of 80.00 cm by two sets of chainmen in 4 lbs. position of middle point. By 1 st set 80.02 cm By 2 nd set 79.98 cm. the mean of which is
80,00		Set a limestone 17x7x6 in. 11 in. in the ground for standard cor. of secs. 32 and 33 marked S.C. on N. face with 2 grooves on N. and 4 grooves on E faces; dig pits 24x18x12 in. crosswise on each line E. and W. 3 ft. and N. of stone 7 ft. dist and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil sticky soft. clay and alkali crust 4 th rate No vegetation
		April 17: at this cor. I set off 10° 16' 30" N. on the decl. arc and at 12" m. I. n. t. observed the sun on the meridians! the resulting lat. is 41° 7' N.
36.97		East on S. bdy. sec. 33 Dry wash 8 ft. wide 3 ft. deep drains S. 20° E. Difference between measurements of 40.000 cm by two sets of chainmen in 2 lbs. position of middle point By 1 st set 39.99 cm By 2 nd set 40.01 cm the mean of which is
40.00		Set a limestone 17x7x5 in. 12 in. in the ground for standard 1/4 sec. cor. marked S.C. 1/4 on N. face; dig pit 18

First Standard Parallel North through Range 16 West

chainin	x 18 x 12 in. E and W of above 3 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Difference between measurements of 80.00 cm by two sets of chainmen in 2 hrs. position of middle point By 1 st set 79.97 cm. By 2 nd set 80.03 cm. the mean of which is
80.00	Set a limestone 18 x 7 x 6 in. 12 in. in the ground for standard cor. of recs. 33 and 34 marked S.C. with face with 3 grooves on E. and W. faces; dig pit 24 x 18 x 12 in crosswise on each line E. and W 3 ft. and N. of above 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft, sticky clay and crust of salts & nitrates no vegetation
9,40	East on S. side, rec. 34 Over flat alkali desert Dry wash 12 ft. wide 2 ft. deep, drains S 25° E
32,65	Dry wash 14 ft. wide 3 ft. deep, drains S 25° E Difference between measurements of 40.00 cm. by two sets of chainmen in 2 hrs. position of middle point By 1 st set 40.01 cm. By 2 nd set 39.99 cm. the mean of which is
40.00	Set a limestone 17 x 6 x 6 in. 12 in. in the ground for standard 34 rec. cor. marked S.C. on N. face; dig pit 18 x 18 x 12 in. E and W. of above 3 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Dry wash 8 ft. wide 3 ft. deep, drains S 25° E
66.75	Difference between measurements of 80.00 cm. by two set of chainmen in 3 hrs. position of middle point By 1 st set 80.01 cm.
80,00	By 2 nd set 79.98 $\frac{1}{2}$ cm. the mean of which is Set a limestone 17 x 9 x 4 in. 11 in. in the ground for standard cor. of recs. 34 and 35 marked S.C. on N face with 4 grooves on W. and 2 grooves on E. faces; dig pit 24 x 18 x 12 in crosswise on each line E. and W. 3 ft. and N. of above 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft, sticky clay and salt crust & nitrates

First Standard Parallel North through Range 16 west

chain	no vegetation
	East on S. bdy. rec. 35
	Over flat alkali desert
	Differences between measurements of 40.00 chs by two sets of chainmen in 2 hrs. position of middle point By 1 st set 39.99 chs.
4,000	By 2 nd set 40.01 chs. the mean of which is Set a dark porphyry stone 18x6x6 in. 12 in. in the ground for standard 1/4 rec. cor. marked S.C. 1/4 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80,00	Two sets of chainmen exactly agreed as to position of Set a dark porphyry stone 17x7x6 in. 11 in. in the ground for standard cor. of recs. 35 and 36 marked S.C. on N. face with 5 grooves on W. and 1 groove on E. faces; dig pit 24x18x12 in. crosswise on each line E and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert
	Soil soft, sticky clay, and crust of salts $\frac{4}{4}$ ch rate no vegetation
	East on S. bdy. rec. 35
40,00	Two sets of chainmen exactly agreed as to position of Set a dark porphyry stone 17x7x6 in. 12 in. in the ground for standard 1/4 rec. cor. marked S.C. 1/4 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
	Differences between measurements of 80.00 chs by two sets of chainmen in 2 hrs. position of middle point By 1 st set 80.01 chs.
	By 2 nd set 79.99 chs the mean of which is Set a dark porphyry stone 18x6x6 in. 12 in. in the ground for standard cor. of T 8. 5 N. R 15 and 16 W. marked S.C. T 5 N. on N. 15 W. on E and 16 W. on W. faces, with 6 grooves on N & and on faces; dig pit 30x24x12 in. crosswise on each line E and W. 4 ft. and N. of stone 8 ft. dist.

First Standard Parallel North through Range 16 W.

chains and raise a mound of earth 5 ft. high. 2 ft. high N. of cor.
Land flat alkali desert.
Soil sticky soft clay and crust of salts 4 in. thick
no vegetation. —

April 17: At this cor. I set off $41^{\circ} 6' 56''$ N. on the lat. arc $10^{\circ} 22'$ N. on the decl. arc and at $49^{\circ} 42'$ p.m., M.T. determine a meridian with solar, and mark a point thereof on a stone firmly set 5 cm. N. of any station

April 17, 1903

April 17: At 11 $\frac{1}{2}$ p.m., p.m., T.M.T. I observe Polaris at lower culmination in accordance with instructions in the manual and mark a point in the line then determined on the stone set in the ground 5 cm. N. of the cor., on which the meridian falls 0.4 in. west of the mark determined by the solar. —

April 17, 1903.

April 18:

At 7 $\frac{1}{2}$ 10 a.m., T.M.T. I set off $41^{\circ} 6' 56''$ N. on the lat. arc, $10^{\circ} 34' 30''$ N. on the decl. arc, and mark a point in the meridian determined by the solar on the stone set April 17; this mark falls 0.3 in. west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines position for meridians respectively within 1" of arc. of the meridian determined by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory. —

The magnetic bearing of the meridian at 7 $\frac{1}{2}$ 10 a.m. is $N 17^{\circ} 45' W.$; the angle thus determined gives mean mag. decl. $17^{\circ} 45' E.$ —

April 18, 1903

General Description

The land on either side of this line is a trackless desert for many miles; covered in most parts with a crust of alkali salts, and without vegetation of any kind. —

Andrew P. Hanson,

U.S. Geod. Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew P. Hansen

, United States Deputy Surveyor, to assist in running, measuring, marking the lines and corners described in the foregoing field notes of the survey of First Standard Parallel North through ranges 18-17 and 16 west showing the respective capacities in which they acted:

<u>J. F. Hoffmann</u>	, Chainma
<u>R. J. Fairirth</u>	Chainm.
<u>Frank Hoffmann Jr.</u>	Chainma
<u>P. J. Lawrence</u>	Chair
<u>J. F. Hoffmann</u>	Moundma
<u>Frank Hoffmann Jr.</u>	Moundma
<u>R. J. Fairirth</u>	Axman.
<u>Frank Hoffmann Jr.</u>	Axman.
<u>Frank Hyde</u>	Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew P. Hansen

, United States Deputy Surveyor, in surveying those parts or portions of the First Standard Parallel North through ranges 18-17 and 16 West.

of the Salt Lake
Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

<u>Frank Hoffmann Jr.</u>	Chairman.
<u>J. F. Hoffmann</u>	Chairman.
<u>P. J. Fairirth</u>	Chairman.
<u>J. F. Hoffmann</u>	Moundman.
<u>Frank Hoffmann Jr.</u>	Moundm.
<u>P. J. Fairirth</u>	Chairman.
<u>Frank Hoffmann Jr.</u>	Axman.
<u>Frank Hyde</u>	Flagman.

Subscribed and sworn to before me this seventh

day of July, 1903, 189



Sam Raney
Notary Publ.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew P. Hanson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward A. Anderson, United States Surveyor General for The District of Custer, bearing date of the 18th day of March 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Custer, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Land Standard Parallel North through Range 16 West of the Dakar Lake

Base ~~in~~ meridian, in the State of Custer, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Custer and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Andrew P. Hanson
United States Deputy Surveyor.

Subscribed by said Andrew P. Hanson and sworn to before me }
this 6th day of January, 1904 }

Edward A. Anderson
U.S. Surveyor-General
for Dakota

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Dakota City, Custer, March 31, 1904

The foregoing field notes of the survey of The Land Standard Parallel North through Range 16 West of the Dakar Lake Base & Precidiaries, Custer

executed by Andrew P. Hanson
under his contract No. 161, dated March 18, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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1903

L.H.

BOOK A-301

FIELD NOTES

OF THE SURVEY OF THE

Range Line

through

Townships 5-6 and 7 N. between Range 15 and 16 West

of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903

Survey commenced April 18, 1903

Survey completed April 20, 1903

6-151

7 N - low -	6-08-50 ✓
6 N - " "	6-08-74 ✓
5 N - " "	6-03-24 ✓

NAMES AND DUTIES OF ASSISTANTS.

J. Gaffinane	Plausinie
D. J. French	
J. Gaffinane	Mandurian
Frank Gaffinane Jr	"
D. J. French	Circumera
Frank Gaffinane Jr	"
D. R. Lawrence	Hopman

BOOK A-301

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE,

J F Hoffmann

and

R J Friseth

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level +th chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; +th we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

I, the east boundaries of Tps. 5-6 and 7 N.R. 16 W. - S. and E. Bdry. T.4 N.R. 18 W. - S. and E. Bdry. T.4 N.R. 17 W. - E and N. Bdry. T.6 N.R. 18 W. - E. Bdry. T.6 N.R. 18 W. - E and N. Bdry. T.5 and G.N.R. 17 W. - E. Bdry. T.5 and G.N.R. 16 W. of the salt lake base and moundman, Utah.

J. F. Hoffmann

Chainman

R J Friseth

Chainman

Subscribed and sworn to before me this

8th

day of

April 1903

WE,

J F Hoffmann

and

Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

I, the east boundaries of Tps. 5-6 and 7 N.R. 16 W. - S. and E. Bdry. T.4 N.R. 18 W. - S. and E. Bdry. T.4 N.R. 17 W. - E and N. Bdry. T.5 N.R. 18 W. - E. Bdry. T.6 N.R. 18 W. - E and N. Bdry. T.5 and G.N.R. 17 W. - E. Bdry. T.5 and G.N.R. 16 W. of the salt lake base and moundman, Utah.

J. F. Hoffmann

Moundman

Frank Hoffmann Jr.

Moundman

Subscribed and sworn to before me this

8th

day of

April 1903

WE,

R J Friseth

and

Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of ... and other duties, according to instructions given us, to the best of our skill and ability, in the survey Es. P. 1, Tps. 5-6 and 7 N.R. 16 W. - S. and E. Bdry. T.4 N.R. 18 W. - S. and E. Bdry. T.4 N.R. 17 W. - E and N. Bdry. T.5 N.R. 18 W. - E and N. Bdry. T.5 and G.N.R. 17 W. - E. Bdry. T.5 and G.N.R. 16 W. of the salt lake base and moundman, Utah.

R J Friseth

Axman

Frank Hoffmann Jr.

Axman

Subscribed and sworn to before me this

8th

day of

April 1903

I,

B R Lawrence

, do solemnly swear that I will well and

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in

I, the survey of Es. Bdry. Tps. 5-6 and 7 N.R. 16 W. - S. and E. Bdry. T.4 N.R. 18 W. - S. and E. Bdry. T.4 N.R. 17 W. - E. Bdry. T.5 N.R. 18 W. - E and N. Bdry. T.5 and G.N.R. 17 W. - E. Bdry. T.5 and G.N.R. 16 W. of the salt lake base and moundman, Utah.

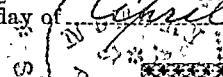
B R Lawrence

Flagman

Subscribed and sworn to before me this

8th

day of

April 1903*B R Lawrence*

Flagman

Sam Raney

Notary Public

My Commission expires August 1st 1905

Range lines through Townships 5, 6 and 7 N between Range 15 and 16 West.

Chain	<p>Survey commenced April 18, 1903 and executed with a. W & L. E. Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minute of arc, which is also the least error of the vernier of the latitude and declination arc. -</p> <p>The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 6, 1903</p> <p><u>Note:</u> I have this day completed a Polar observation and list of adjustments of the instrument for which reference is hereby made to closing of field notes of the First Standard Parallel North through range 16 West Book H. of this survey. -</p> <p>I begin at the standard cor. of Twp 5 N R^E 15' and 16 W. which I established April 17, 1903, thence I run North on a random line, along the range line through Twp. 5 N sec. R^E 15' and 16 W. setting limb. 44 sec and rec. cor. at intervals of 40,000 chm.; and at 483.24 chm. set a limb cor for Twp 5 and 6 N R^E 15' and 16 W and continue my random line as before, North through Twp. 6 N R^E 15' and 16 W.; at 488.74 chm set a limb cor. for Twp. 6 and 7 N R^E 15' and 16 W. -</p> <p style="text-align: right;">April 18, 1903</p>
-------	---

April 19: I again continue my random line as
before north through Twp. 7 N R^E 15' and 16 W and at
488.50 chm. intersect the S. bdy. of T 8 N R. 15' W. 14.8 km.
E. of the cor. of Twp. 7 and 8 N R^E 15' and 16 W as
herebefore described. -

The falling aurora is a correction of less than 1' per
mile and the return course will therefore be the
same as the random course or, south, commencing
at the cor. of Twp. 7 and 8 N R^E 15' and 16 W; therefore I run
South bet. recs. 1 and 6.

Over white alkali desert

48,50 Set a limaticus 18x6x6 in. 12 in. in the ground for
44 sec. cor. marked 44 on. av. face. dig pit 18x18x12 in.
ands of shrub 3 ft. dist. and raise a mound of
earth 3 1/2 ft. base 1 1/2 ft. high. av. of cor. -

Bang & Line through Tp. 7 N. R^e 15 and 16 west

Chains	
8,60	<p>Set a limestone 16x8x6 in., 10 in. in the ground for cor. of secs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges; dig pit ^{18x12} in each sec. 3 1/2 ft. deep, and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat alkali desert</p> <p>Soil clay, and crust of salts + rate rate No vegetation.</p>
	<p>April 19: the sky being overcast during the noon hour I obtained no observation on the sun while on the meridian. —</p>
	<p>South bet. secs. 7 and 12</p>
	<p>Over flat alkali desert.</p>
4,000	<p>Set a limestone 17x6x6 in., 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of above 3 ft. deep, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p>
8,000	<p>Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges; dig pit 18x18x12 in. in each sec. 6 1/2 ft. deep, and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land flat alkali desert</p> <p>Soil clay with crust of salts, soft, sticky, + rate rate A few, shrubs brush scattering</p>
	<p>South bet. secs. 13 and 18</p>
	<p>Over flat alkali desert</p>
4,000	<p>Set a limestone 16x7x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of above 3 ft. deep, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p>
8,000	<p>Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 13-18-19 and 24 marked with 3 notches on N. and S. edges; dig pit ^{18x18x12} in each sec. 6 1/2 ft. deep, and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land flat alkali desert</p> <p>Soil clay with crust of salts, soft, and sticky, + rate rate A few, low, shrubs brush scattering</p>

Ranger Line through Township 7 N. Range 15 and 16 west

Chains	
	South - bet. secs. 19 and 24 Over alkali desert.
32.95	Telegraph line bears easterly and westerly
33.20	Road bears easterly and westerly
33.90	Centre of track Lucio Cut Off C.P.R.R. on fill 4 ft. high bears easterly and westerly. -
40.00	Set a limestone 17x7x6 in. 11 in. in the ground for 1/4 acre. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone. 3 ft. deep and raise a mound of earth 3 1/2 ft. base 15 ft. high W. of cor.
80.00	Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 19-24-25 and 30 marked with 4 notches on N. and 2 notches on S. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. deep. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil clay with crust of salts, soft, sticky, 4 granite A few low thorny shrubs underground.
	April 19: At 4:50 pm, I set off 41019. Now the lat. are 110° 4' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 19- 24-25 and 30 three times
	South - bet. secs. 25 and 30
	Over flat alkali land
27.60	Wash 8 ft. wide 2 ft. deep. dir. E.
36.50	Enter sand dunes about 12 ft. above surrounding desert course. Exposed W.
40.00	Set a limestone 16x7x6 in. ^{Wasteground} for 1/4 acre. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. deep. and raise a mound of earth 3 1/2 ft. base 15 ft. high W. of cor. -
80.00	Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 25-30-31 and 36 marked with 5 notches on N. and 1 notch on S. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. deep. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land. flat alkali desert. and sand dunes
	Soil clay with crust of salts and fine gravel and yellowish No timber.

Range Line through Th. 7 N. 192 15 and 16 W.

Chamra	Thorny shrub underground scattering
34,25	South bel. recs. 3 and 3 C Over alternating alkali flats and sand dunes Dry wash c. ft. wide 2 ft. deep elevation C. Set. a limestone 17x7x6 ins. 11 ins. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N. and S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
40,00	A point due east of the cor of Tps. 6 and 7 N. R. 15 and 16 W. as location described.
8,000	Set. a limestone 17x6x6 ins. 11 ins. in the ground for cor. of Tps. 6 and 7 W. R. 15 and 16 W. marked T 7 N or N.C., R. 15 or on S.E.T.G.W. on S.S. and R. 16 W and N.H. face with 6 mocher on each edge; dig pit 24x24x12 ins. N.E. and W 4 ft. and S. of stone 8 ft. dist. and raised a mound of earth 5 ft. base 2 1/2 ft. high. S. of cor.
	Land alkali flats and sand dunes. Soil clay with crust of salts and fine gray sand & shale No timber.
	Scattering thorny shrub underground
	April 19, 1903
48,74	April 20: At 745 m a m, I set off 41° 17' 22" N. on the lat. arc. 11° 16' N. on the decl. arc. and determine a true meridian with the solar at the cor. of Tps. 6 and 7 N. R. 15 and 16 W.
88,74	Three Towns S. vuln. bel. recs. 1 and 6 Over alkali desert Set. a limestone 17x7x6 ins. 11 ins. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N. and S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
	Set. a limestone 16x8x6 ins. 11 ins. in the ground for cor. of recs. 1-6-7 and 12 marked with 1 moch. on N. and S. moch. on S. edge; dig pit 18x18x12 ins. in each rec. 6 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high. W. of cor.
	Land alternating sand dunes and alkali flats Soil clay with crust of salts and fine gray sand & shale

Range Line through Tp G N. RS 15 and 16 W.

Chains	No Timber Thorny shrub undergrowth scattering
	South-bd. secs. 7 and 12
4,000	Over alkali desert Set a limestone 17x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N. and S of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a limestone 17x6x6 in. 11 in. in the ground for cor. of secs. 7-12-13 and 18 marked with - 2 notches on N. and 4 notches on S edges: dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land alkali and sand desert Soil alternating clay flats with crust of salt and sand dunes, 4 th rate
	No timber Thorny shrub undergrowth, scattering
	South-bd. secs. 13 and 18
8,25	Dry wash 8 ft. wide 2 ft. deep drains E.
4,000	Set a limestone 18x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N and S of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor. -
8,000	Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 13-18-19 and 24 marked with - 3 notches on N. and S. edges: dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 1/2 ft. high W. of cor. Land flat alkali desert Soil clay with crust of salts - 4 th rate
	No timber Low thorny shrub undergrowth, scattering
	South-bd. secs. 19 and 24
23.57	Over. flat alkali desert.
35.30	Dry wash drains E.
4,000	Set a limestone 16x7x6 in. 11 in. in the ground for 1/4

Range line through T.G.N. R8 15 and 16 N

Chains	Sec. cor. marked $\frac{1}{4}$ on W. face; dig pit $18 \times 18 \times 12$ in. N and S of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
53,65	Wash. 6 ft. wide 2 ft. deep drains E.
8,000	Set a limestone $16 \times 7 \times 6$ in. 11 in. in the ground for cor. of secs. 19-24-25 and 30 marked with 4 notches on N. and 2 notches on S. edges; dig pit $18 \times 18 \times 12$ in. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. - Land, flat alkali desert Soil clay with crust of salts - 4 $\frac{1}{2}$ ratio No timber A few low thorny brush undergrowth -
	South bet. secs. 26 and 30
4,000	Set a limestone $17 \times 6 \times 6$ in. 11 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; dig pit $18 \times 18 \times 12$ in. N and S. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
68,60	Dry wash. 6 ft. wide 2 ft. deep drains E.
8,000	Set a limestone $17 \times 6 \times 6$ in. 11 in. in the ground for cor. of secs. 25-30-31 and 36 marked with 5 notches on N. and 1 notch on S. edges; dig pit $18 \times 18 \times 12$ in. in each sec. $6\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil clay with crust of salts - 4 $\frac{1}{2}$ ratio - No timber A few scattering thorny brush. -
	South bet. secs. 31 and 36
4,000	Over flat alkali desert Set a limestone $17 \times 7 \times 6$ in. 11 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; dig pit $18 \times 18 \times 12$ in. N and S. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor. -
8,000	A point due east of the cor. of Tps. 5 and G N R8 18 and 19 N. Set a limestone $16 \times 8 \times 7$ in. 11 in. in the ground for cor. of Tps. 5 and G N R8 15 and 16 N. marked T.G.M. on N.E. R15 W on S.E. T5 N on S.W. and 1216 W. on N.W.

Range Line through T. 6 N 12 $\frac{1}{2}$ 15' and 16 W.

Chain faces with 6 notches on each edge; dig pits 24x24x12 ins. on each line N. & S. and at 4 ft. and S of stone 8 ft. dist and raise a mound of earth - 5 ft. base 2 $\frac{1}{2}$ ft. high, S. of cor.

Land flat alkali desert

Soil clay with crust of salts - 4 ft. rate

No vegetation.

April 20: at this cor. I set off 11° 15' N. from the decl. arc and at 114° 57' m. a.m., I first observe the sun over the meridian; the resulting lat. is 41° 12' N.

Range Line through T. 5 N 12 $\frac{1}{2}$ 15' and 16 W.

From the cor. of Tps. 5 and 6 N. R. 2 15' and 16 W above described I run

South: bel. recs. 1 and 6

Over flat alkali desert

43,24 Set a dark eruptive rock, 16x4x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N and S of stone 3 ft. dist and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. -

83,24 Set a dark eruptive stone 17x7x6 in. 11 in. in the ground for cor. of recs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges; dig pit 18x18x12 ins. in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. -

Land flat alkali desert

Soil clay and crust of salts - 4 ft. rate

No vegetation

South: bel. recs. 7 and 12

Over flat desert

4000 Set a dark eruptive stone 17x7x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N and S of stone 3 ft. dist and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.

Set a dark eruptive stone 17x8x5 in. 12 in. in the ground for cor. of recs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges; dig pit 18x18x12 ins. in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.

Range line through T. 5 N R. 15 and 16 W

Chain	Land flat alkali desert Soil clay with crust of salt, soft, sticky & dry no vegetation
4,000	South - bet. recs. 13 and 18 Set a dark, eruptive stone 17x6x5 in. 12 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a dark eruptive stone 17x7x6 in. 12 in. in the ground for cor. of recs. 13-18-19 and 24 marked with 3 notches on N and S. edges: dig pit 18x18x12 in in each rec. 6 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land. flat alkali desert Soil clay with crust of salt, sticky, soft. 4 & dry no vegetation. —
4,000	South - bet. recs. 19 and 24 Over flat alkali desert Set a dark porphyritic stone 17x6x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor..
8,000	Set a dark eruptive rock. 18x6x6 in. 12 in. in the ground for cor. of recs. 19-24-25 and 30 marked with 4 notches on N. and 2 notches on S edges: dig pit 18x18x 12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.. — Land flat alkali desert Soil, soft, sticky clay and salt crust 4 & dry No vegetation. —
4,000	South - bet. recs. 25 and 30 Over flat alkali desert Set a dark eruptive rock 17x8x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a dark eruptive rock. 16x8x6 in. 11 in. in the ground

Range Line through T.5 N. R. 15 and 16 W.

chain	for cor. of sec. 25-30-31 and 36 marked with 5 notches on N and 1 notch on S. edges: dig pile 18x18x12 in. in each 300 - 5 1/2 ft. dist. and varied as around. 2' earth 7 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft sticky clay and crust of salts - no vegetation
	South bet. sec. 31 and 36 Over flat alkali desert.
40,000	Set as dark sulphur stone 17x6x6 in. 11 in. in the ground for 1/4 sec. cor. marked w. no N. faces; dig pile 18x18x12 in. N. and S. of stone 3 ft. dist. and raised around of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80,000	The standard cor. of Tps. 6 N. R. 15 and 16 W. as herefore described. — Land flat alkali desert Soil, soft, sticky clay with crust of salts - no vegetation
	No vegetation. April 20: At 5 th + 4 th , p.m., I set off 11° 24' 30" N. ^{45° 06' 54" from the east} and test the adjustments of my Polar on the meridian established at this cor. April 15, 1903 from Polaris observation and described at end of field notes of 1 st Standard Parallel North through Range 16 W Book H. of this survey - The polar indicates the same meridian as at that time and I conclude, the adjustments are correct.
	April 20, 1908

General Description

This line runs throughout over a barren desert,
having no vegetation except a few low, thorny
scrub; nor any water flowing or still. —

Andrew P. Hanson
U.S. Army Surveyor

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PAGE

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

....., United States Deputy Surveyor, to assist in running, measuring,
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., Chainman

....., Chainman

....., Moundman

To final affidavits see book I J. G. M. R. C., Moundman

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all
those parts or portions of the

To final affidavits see book I J. G. M. R. C.

of the

..... meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this

day of, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____, day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Partial affidavit under L. S. 6 MR 16 S.

of the meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valley Creek, March 31, 1893.
*The foregoing field notes of the survey of the Range Line, Township
S. 6 & T. 6th between Range 15 & 16 West of the
Rocky Mts. in the State of Colorado, etc.*

executed by *Edward F. Hanson*,
under his contract No. 261, dated March 16, 1893, 189_____, having
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward F. Hanson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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FILED/S
JAN 6 1904
[Signature]

L.A.
T.
BOOK A-301

FIELD NOTES

Re
OF THE SURVEY OF THE

Grade Meridian

Through Township N^o. 4 North

Between Range N^o. 18 and 19 West

Of the Salt Lake Basin and Meridian,
Utah

AS SURVEYED BY

Audrey P. Hamer, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903

Re Survey commenced April 21, 1903

Re Survey completed April 24, 1903

6-161

High - 5-34-44 ✓
Low - 5-2-23 ✓ 6-6-6

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann Chairman

R J Friseth Chairman

Frank Hoffmann Jr. Chairman

B R Lawrence Chairman

J F Hoffmann Moderator

Frank Hoffmann Jr. Moderator

R J Friseth Axeman

Frank Hoffmann Jr. Axeman

Frank Hyde Flagman

In preliminary affidavits see book D. G. M. R. 18 Mr.

BOOK A-301

INDEX DIAGRAM.

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

Chai,

Chai,

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the

Mound

Moundm

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the

Axm

Axm

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



I, _____, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, survey of _____

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



NO. A

Survey of Guide Meridian through T 4 N bet R^E 18 and 19 W.

Chain Survey commenced April 21, 1903 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 6, 1903.

For list of adjustments reference is hereby made to the field notes of range line through T. 5 N R^E 16 and 16 W. Book I under date of April 20, 1903 and being confident the instrument still remains in good adjustment I consider it unnecessary to repeat the list at this time. —

Having no other means to locate the cor. of Tps 3 and 4 N. R^E 18 and 19 W from which to commence the survey of T. 4 N. R^E 18 W. I begin at the standard cor. of T. 5 N R^E 18 and 19 W. as heretofore described; then I retrace south on the Guide Meridian through township 4 N. noting the distance and falling at each corner; and having found the entire line deficient in alignment and measurement and the corners partly obliterated I make the following resurvey. —

I begin at the cor. of Tps. 3 and 4 N. R^E 18 and 19 W. as found; a quartzite stone 8 x 6 x 6 in above ground firmly set and marked with 6 notches on each edge; I mark said stone 4 N. on N.E. 18 W on S.E. 3 N. on S.W. and 19 W on N.W. faces; dig pit 24 x 24 x 12 in on each line N.E. and W. 4 ft. and 3 of stone 8 ft. dist. and raise a mound of earth 5 ft. base 2 1/2 ft. high S. of cor.

Then I run

N. 0° 8' E. bet sec. 31 and 36.

Through dense undergrowth.

Difference between measurements of 40.48 chs by two sets of chains is 8 mrs; position of middle point By 1st set 40.44 chs.

By 2nd set 40.52 chs. the mean of which is

40.48 The 14 sec. cor. as found; a hard sandstone 16 x 7 x 4 in

Discovery of Guide Meridians through T. 4 W. sec. R. 18 and 19 N.

chain	lying on top of ground and marked 1/4 on top face; Reset above 11 in. in the ground for 1/4 sec. cor. marked 1/4 on all faces; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. Difference between measurements of 80.96 cm by two sets of chainmen is 6 lbs.; position of middle point Bei 1 st Oct 80.93 cm. By 2 nd Oct 80.99 cm. the mean of which is
80.96	The cor. of recs. 25-30-31 found 36 as formed; a hard sandstone 14 x 8 x 5 in. set 2 in. in the ground and properly marked. Reset above 11 in. in the ground for cor. of recs. 25-30 31 and 36 marked with 1 notch on S. and 5 notches on N. edge; dig pit 18 x 18 x 12 in. each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land level, rough surface Soil clay and gravel with some alkali 3rd rate No trees Thorn bush undergrowth - 2 to 3 ft. high Beneath underground - 80.96 cm.
40.58	N. 0° 10' W. bed. recs. 25 and 30 Through dense undergrowth - Difference between measurements of 40.58 cm by two sets of chainmen is 6 lbs.; position of middle point Bei 1 st Oct 40.60 cm. By 2 nd Oct 40.56 cm. the mean of which is The 44 rec. cor. as formed; a hard sandstone 15 x 8 x 6 in. lying on top of ground and marked 1/4 on top face; Reset above 10 in. in the ground for 44 rec. cor. marked 1/4 on all faces; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. Then I run N. 0° 17' W. Difference between measurements of 40.48 cm by two sets of chainmen is 6 lbs.; position of middle point... Bei 1 st Oct 40.57 cm. By 2 nd Oct 40.45 cm. the mean of which is
40.48	The cor. of recs. 19-24-25 and 30 as formed; a quartzite stone 12 x 8 x 6 in. lying on top of ground and marked.

Boundary of Guide Meridian through T. 4 N. bet. R. 18 and 19 W.

claims

with 2 and 4 notches on opposite edges.
Rect. stone 8 in. in the ground for cor. of secs 19-24-25 and
30 marked with 2 notches on S and 4 notches on N. edges;
dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raised
a mound of earth 4 ft. base 2 ft. high N. of cor.
Land level, but rough surface
Soil clay and gravel wash with some alkali 3rd rate.
No timber
Flowering shrub underground 2 to 3 ft. high
Dense underground 81.06 chs
April 21: at this cor. I set off 11°40' N on the decl.
arc and at 11°59' am, first observe the sun on the
meridian; the resulting lat. is 41°3'30" N.

N 0°21'47. bet. secs. 19 and 24

Through dense vegetation -

14.50.

Spring branch 1 ft. wide flows E.

Difference between measurements of 40.37 chs by two
sets of chainmen in 6 hrs. position of middle point
By 1st set 40.37 chs

By 2nd set 40.40 chs; the mean of which is

40.37

The 14 sec. cor. as found; a limestone 12x8x6 in.
lying on top of ground and marked 1/4 on top face;
Rect. stone 8 in. in the ground for the 20 cor. marked
1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone
3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft.
high N. of cor.

27.25.

Spring branch 1 ft. wide drains E.

Differences between measurements of 80.72 chs by two
sets of chainmen in 8 hrs. position of middle point

By 1st set 80.68 chs.

By 2nd set 80.76 chs. The mean of which is

80.72

The cor. of secs. 13-18-19 and 24 as found; a hard
sandstone 7x6x5 in. above ground firmly set and
properly marked; dig pit 18x18x12 in. in each corner
5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft.
high N. of cor.

Land level, but rough surface

Soil clay with some alkali and gravel wash 3rd rate.
No timber

Flowering shrub underground 3 to 4 ft. high

Survey of Guidi Meridian Through T 44° S. sec. 18 and 19 off.

chain	Chain underground - 80.72 cm
	N. 0° 31' W. bet. sec. 18 and 19
	Thorny & dense undergrowth
9.00	Spring branch 1 lk. wide flows E.
32.92	Spring branch 1 lk. wide flows E.
	Difference between measurements of 40.22 cm by two sets of chainmen in 4 lk., position of middle point
	By 1 st set 40.24 cm
	By 2 nd set 40.20 cm the mean of which is
40.22	The 1 st sec. cor. as found; a weathered stone 14x8x5 in. set 3 in. in the ground and marked 1/4 on N. face +
	Reel stone 9 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
	Then Drift N. 0° 22' W.
19.73	Spring branch, 2 lks. wide flows E
	Difference between measurements of 40.48 cm by two sets of chainmen in 4 lk., position of middle point
	By 1 st set 40.50 cm
	By 2 nd set 40.46 cm the mean of which is
40.48	The cor. of sec. 7-12-13 and 18 as found; a hard sandstone 7x6x5 in. above ground firmly set and marked with 4 notches on S and 2 notches on N. edge.
	Dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level, but rough surface
	Soil clay, with some alkali 3rd rate
	No timber
	Thorny shrub undergrowth - 3 to 4 ft. high
	Keen underground - 80.70 cm. -

April 21: At 3⁴ 40^m p.m., S.M. A set off 41° 51' N. on the sec. cor. 11-44' N. on the decl. cor. and determine a meridian with the area at the cor. of sec. 7-12-13 and 18.

Then Drift

N. 0° 35' W. bet. sec. 7 and 12

Thorny dense undergrowth -

Difference between measurements of 40.90 cm by two sets of chainmen in 8 lk., position of middle point

Reservoirs of Purde, Discordian through T 4 N. R 18 and 19 W.

chain	By 1 st act 40.86 cm.
40.90	By 2 nd act 40.84 cm. the mean of which is the 44 rec. cor. as found; a quartzite stone 15x7x4 in. lying on top of ground and marked 44 on top face; rest above 10 in. in the ground for 44 rec. cor. marked 44 on N. face; dig pit 18x18x12 in N and S of about 3 ft. deep and raised a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
8.65	Then I run N. 0° 20' E
40.10	Old unmarked ditch bears E. and S. Difference between measurements of 40.10 cm by two sets of chainmen in 8 ft. position of middle point By 1 st act 40.06 cm By 2 nd act 40.14 cm. the mean of which is The cor. sec. 1-6-7 and 12 as found a quartzite stone 7x6x5 in. above ground for each act and marked with 5' notches on S. and 1' notch on N. edges:- dig pit 18x18x12 in. in each sec. 5 $\frac{1}{2}$ ft. deep and raised a mound of earth - 4 ft. base 2 ft. high N. of cor. Land level, but rough surface Soil clay and gravelly, wash. 2 nd and 3 rd rate - No timber. Dense thicket undergrowth - 3 to 4 ft. high and sage. Dense undergrowth - 8 to 10 ft. -
8.00	N. 0° 42' E. bet. acts. 1 and 8 Through dense undergrowth Leave dense undergrowth - course north westly and north easterly - Enter white alkali desert Difference between measurements of 40.65 cm by two sets of chainmen in 4 ft. position of middle point By 1 st act 40.70 cm. By 2 nd act 40.66 cm. the mean of which is The 44 rec. cor. as found; a granite stone 14x9x6 in. lying on top of ground and marked 44. - Rest above 9 in. in the ground for 44 rec. cor. marked 44 on N. face; dig pit ^{18x18x12 in.} N and S. of stone 3 ft. deep and raised a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Then I run N. 7° 15' E Difference between measurements of 41.56 cm by two

Survey of Guide Meridian through T 4 N sec. R^E 18 and 19 W.

chain acts of chaining in 2d sec. portion of middle point
By 1st set. 41.56 ch.
By 2nd set 41.54 ch. the mean of which is
The standard cor. of the S.W. R^E 18 and 19 W. as heretofore
described
Land level
Soil clay, and alkali salts 3rd and 4th rate
No timber
Dense thorny shrub undergrowth -
Dense undergrowth - 30.00 chs. -
April 21: at this standard, cor. I set off 41° 6' 56" N.
on the lat. arc 11° 45' 30" W. on the decl. arc and at 44
52" from T. 21.4. Test the adjustments of the instrument
on the meridian established April 16 by Polaris obser-
vation and described in the field notes of the
First Standard Parallel North through range 18 W.
Boston F.; I obtain a meridian corresponding with
said meridian established by Polaris observation, within
30" of arc and conclude the adjustments are correct
and further test at this time unnecessary

April 21, 1903

General Description

For general description see field notes of subdivision
of T. 4 N. 18.18 W. "Book L."

Andrew P. Dawson
U.S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew P. Hansen, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Guide Meridian through Twp 4-5 and C.R. sec R2, showing the respective capacities in which they acted:

J. F. Hoffmann, Chairman.
R. J. Fraiseth, Chairman.
Frank Hoffmann Jr., Chairman.
B. R. Lawrence, Chairman.
J. F. Hoffmann, Mountman.
Frank Hoffmann Jr., Mountman.
R. J. Fraiseth, Axeman.
Frank Hoffmann Jr., Axeman.
Frank Ryde, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew P. Hansen,

United States Deputy Surveyor, in surveying all those parts or portions of the Guide Meridian through Twp 4-5 and C.R. sec R2, 18 and 19 N.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Frank Hoffmann Jr., Chairman.

J. F. Hoffmann, Chairman.

R. J. Fraiseth, Chairman.

J. F. Hoffmann, Mountman.

B. R. Lawrence, Mountman.

Frank Hoffmann Jr., Mountman.

R. J. Fraiseth, Axeman.

Frank Hoffmann Jr., Axeman.

Frank Ryde, Flagman.

Subscribed and sworn to before me this seventh day of July, 1903, 189-



Ram Raney
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew P. Hanson

United States Deputy Surveyor, do

solemnly swear that, in pursuance of a contract received from Edward H. Anderson,
United States Surveyor General for The District of Custer, bearing date of the

18th day of March 1903, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for Custer, the Manual of Surveying Instructions, and the laws of the

United States, surveyed all those parts or portions of The Custer Meridian
Through Township 4, 5 & 6 Both Between Ranges 18 & 19

Both in the State of South Dakota

of the Dakota

Meridian, in the Plates of Custer, which are represented in the
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for Custer, and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Andrew P. Hanson

United States Deputy Surveyor.

Subscribed by said Andrew P. Hanson, and sworn to before me }
this 6th day of January, 1904 }

Edward H. Anderson
U. S. Surveyor-General
for Custer

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Dakota March 31, 1904
The foregoing field notes of the survey of The Custer Meridian (including)
4, 5 & 6 Both Between Ranges 18 & 19 West of the Dako
Dakota Both in the State of South Dakota

executed by Andrew P. Hanson
under his contract No. 961, dated March 18 1903, 1800, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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JAN 13 1904

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BOOK A-301

FIELD NOTES

OF THE SURVEY OF THE

South and East BoundariesofTownship No 14 North Range No 18 Westof the Salt Lake 13th and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Finney, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189-

Survey commenced April 22, 1903, 189-

Survey completed April 22, 1903, 189-

6-101

S - Poly - low -	5-78-11	✓
E - " "	6-06-80	✓
dog -	6-68	✓

" 04.91

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann - - - Chairman

R. J. Friedrich - - - Chairman

J. F. Hoffmann - - - Vice-chairman

Frankle Hoffmann Jr. - - - Record-keeper

R. J. Friedrich - - - Assistant

Frankle Hoffmann Jr. - - - Assistant

H. R. Lawrence - - - Flagman

To be furnished my office at 11 A.M. on Oct. 10th

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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



South and East Boundaries T. 4 N R 18' W.

Claims Survey commenced April 22, 1903 and executed with a W & L E Gurley light mountain transit with solar attachment. - The horizontal arc is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. - The instrument was examined tested on the true meridian at Salt Lake City found correct and was approved by the surveyor general for Utah April 6, 1903. -

For test of adjustment reference is hereby made to field notes of the resurvey of Guide Meridians through township 4 N bet. range 18 and 19 W., Book J under date of April 21, 1903, and being confident the instrument still remains in satisfactory adjustment I consider it unnecessary to repeat the test here. -

I begin at the cor. of T. sec. 3 and 4 N. R. 18 and 19 W. as heretofore described in lat. $41^{\circ}1'43''$ N long. $113^{\circ}57''$ W. where at 7:50 a.m. on April 22 I set off $41^{\circ}1'43''$ N. on the lat. arc $11^{\circ}57'$ N on the decl. arc and determine a meridian with the solar

Transit Survey

East sec. 20, 21, 6 and 31

Over level surface: through undrained,

1000 Leave vegetation, beds N and S: soil or white alkali desert allowing for evaporation, at
Set a quartile stone $18 \times 7 \times 6$ in. 12 in. in the ground for $\frac{1}{4}$ sec. ev. marked $\frac{1}{4}$ on N. face; dig pit $18 \times 18 \times 12$ in. E and W of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

38,11 Set a quartile stone $17 \times 7 \times 6$ in. 12 in. in the ground for cor. of secs. 5-6-31 and 32 marked with 1 notch on N and 5 notches on E edges; dig pit $18 \times 18 \times 12$ in. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. -

Land flat, and level desert except first 10 chs.

Soil clay with crust of alkali sulfate

No vegetation on last 6-8 chs. on first 10 chs. thinning undergrowth and salt grass. -

East sec. 20, 21, 6 and 31

40,00 Set a quartile stone $18 \times 7 \times 6$ in. 12 in. in the ground for $\frac{1}{4}$ sec. ev. marked $\frac{1}{4}$ on N. face; dig pit $18 \times 18 \times 12$

South and East Boundaries of T. 4 N. R. 18' W.

Chains 8,000	ins. E and W. of above 3 ft. dirt. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Set a quartzite above 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 4-5-32 and 33 marked with 2 notches on W. and 4 notches on E. edges; dig pit 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil sticky soft clay with crust of calk - 4 ft. no vegetation.
East bet. secs. 4 and 33 4,000	Set a quartzite above 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 4-5-32 and 33 marked with 2 notches on W. and 4 notches on E. edges; dig pit 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. -
8,000	Set a quartzite above 17 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges; dig pit 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil clay with crust of calk - soft, sticky & granular No vegetation.
East bet. secs. 3 and 34 4,000	Set a quartzite above 18 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges; dig pit 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Set a quartzite above 17 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 2-3-34 and 35 marked with 2 notches on E. and 4 notches on W. edges; dig pit 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil sticky soft clay with crust of calk - 4 ft. no vegetation.
East bet. secs. 2 and 35	

South and East Boundaries of T 4 N R 18 W.

Chain

4,000	Set a quartzite stone 17x6x6 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Set a quartzite stone 18x6x6 in., ^{12 in. in the ground} for cor. of recs. 1-2 3 1/2 and 8 1/2 marked with 1 notch on E. and 5 notches on N. edges; dig pit 18x18x12 in. in each rec 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil stony soft clay with salt crust moderate No vegetation

East bet. recs. 1 and 3 1/2

4,000	Set a quartzite stone 17x7x6 in., 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. —
8,000	Set a quartzite stone 17x8x6 in., 12 in. in the ground for cor. of Tps. 3 and 4 N. R 17 and 18 W. marked 4 N. on N.E., 17 W. on S.E., 3 N. on S.W. and 18 W. on N.E. faces, with 6 notches on each edge; dig pit 24x24x12 in. on each line N. & and W. 4 ft. and S. of stone 8 ft. dist. and raise a mound of earth 5 ft. base 2 1/2 ft. high S. of cor. Land flat alkali desert Soil clay, and crust of alkali salts, 4 th rate No vegetation.

April 22: at this cor. I set off 12° 0' N. on the decl. arc and at 11° 57" a.m. I did not observe the sun on the meridian; the resulting lat. is 41° 1' 43" N.

East Boundary of T 4 N R 18 W.

From the Tp. Cor last described I run
North bet. recs. 3 1/2 and 3 1/2

4,000	Set a quartzite stone 18x6x6 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Set a quartzite stone 18x7x6 in., 12 in. in the

South and East Boundaries of T. 4 N. R. 18 W.

Chains	ground for cor. of recs. 25-30-31 and 36 marked with 1 notch on S. and 5 notches on N. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil clay, soft and sticky, and crust of salts, 4 th rate No vegetation
4,000	North bch. recs. 25 and 30 Set a quartzite stone 17x6x6 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. -
8,000	Set a quartzite stone 17x7x6 in. 11 in. in the ground for cor. of recs. 19-24-26 and 30 marked with 2 notches on S. and 4 notches on N. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil sticky soft clay and crust of salts 4 th rate No vegetation. -
4,000	North bch. recs. 19 and 24 Set a quartzite stone 16x7x6 in. 11 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Set a quartzite stone 17x6x6 in. 12 in. in the ground for cor. of recs. 13-18-19 and 24 marked with 3 notches on N. and S. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil, sticky, soft. clay and crust of salts, 4 th rate No vegetation. -
4,000	North bch. recs. 13 and 18 Set a quartzite stone 17x6x6 in. 11 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.

East Boundary of T 4 N 12 W.

Chain	
80,00	<p>Set a quartzite stone 17x7x6 in. 12 in. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land flat alkali desert</p> <p>Soil soft sticky clay, with crust of salts & carbonate No vegetation</p>
40,00	<p>North bet. secs. 7 and 12</p> <p>Set a quartzite stone 16x7x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p>
80,00	<p>Set a quartzite stone 16x8x5 in. 11 in. in the ground for cor. of secs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges! dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land flat alkali desert</p> <p>Soil soft sticky clay and salt crust. 4 ch. rate No vegetation</p>
40,00	<p>North bet. secs. 1 and 6</p> <p>Set a quartzite stone 17x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p>
86,80	<p>Intersect the First Standard Parallel North R. 18 W. at 6,68 chs. W. of the standard cor. of Tps. 6 N 12 E 17 and 18 W. as heretofore described.-</p> <p>Set a quartzite stone 16x8x5 in. 11 in. in the ground for closing cor. of township 4 N. ranges 17 and 18 W. marked C.C. 4 N on S. 17 W. on E. and 18 W on W. faces, with 6 grooves on S. E. and W. faces; dig pit 30x24x12 in.; crosswise on each line E and W. 4 ft. and S. of stone 8 ft. dist., and raise a mound of earth 5 ft. base 2 1/2 ft. high S. of cor.</p> <p>Land flat alkali desert</p> <p>Soil soft sticky clay and crust. of salts & carbonate No vegetation</p>

East Boundary of T 4 N R 18 W.

For list of adjustments of instrument see following book, i.e.
Book L.-

April 22, 1903

Boundary of T 4 N R 18 W.

Latitude Refraction and closing errors -

Line designated	True bearing	Distances chain	Latitude N. S. chain	Departure E. W. chain
Entire Meridian	N 0° 8' E	80,981'	80,961 + .16	0.19
" "	N 0° 10' W	40,38	40,08	0.12
" "	N 0° 17' W	40,48	40,48	0.20
" "	N 0° 21' W	80,72	80,72	0.49
" "	N 0° 31' W	40,22	40,22	0.36
" "	N 0° 22' W	40,48	40,48	0.26
" "	N 0° 36' W	40,90	40,90	0.42
" "	N 0° 20' E	40,10	40,10	0.23
" "	W 0° 42' E	40,68	40,68	0.49
" "	N 7° 15' E	41,55	41,21	5.24
First 4th Par. N.	East.	473.32		473.32
East Bdg.	South.	486.80	486.80	
South Bdg.	West.	478.11		478.11
Convergence	- - -	- - -	486.33 + 486.80	480.18 479.96
Total	- - -	- - -	486.33	479.96
Error	- - -	- - -	of Lat. 0.44	0.14 of Dep.

General Description

For general description see subdivision notes of this
T.P. "Book L."

Andrew P. Hanson
U.S. Geog. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____
_____, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of _____
_____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

In final affidavit book T' J. G. MORRISON, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all
those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

In final affidavit book T' J. G. MORRISON, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____

day of _____, 189 _____



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of day of 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Sworn before me this 21st of March 1903

..... of the

..... meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of 189 }

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000000
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APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Valent. F. C. Plumb, March 21, 1903
Surveyor of Smith, New & East Boundaries.
Member of Smith, New & East Boundary Survey.
Done & Drawn by E. L. T. S.

executed by *Edward H. Anderson*
under his contract No. 261, dated March 18, 1903, No. , having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor G...

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor G...

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JAN 18 1904
W.H.G.

BOOK A-301

FIELD NOTES

Ex. 3.B.

OF THE SURVEY OF THE

Subdivision Lines

of

Township N. 4 North Range N. 18 West

of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Harrer, United States Deputy Surveyor,

Under his Contract No. 261 dated March 18, 1903, 1803

Survey commenced April 23 1903, 189-

Survey completed April 28 1903, 189-

6-181

High	61-07 ✓	60-25 ⁵⁶
Low	-59-14-79 ✓	
Cross	47-31 ✓	

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann.....Chairman.....

R J Tricella.....Chairman

J F Hoffmann.....President.....

Frank Hoffmann Jr.....Vice President.....

R J Tricella.....Secretary.....

Frank Hoffmann Jr.....Treasurer.....

B H Lawrence.....Flagman.....

BOOK A-301

INDEX DIAGRAM.

Township _____, *Range* _____

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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, J. F. Hoffmann and R. J. Favreille

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

the subdivision lines of Tps. 5-6 and 7 N.R. 16 W., Tps. 4-5-6 and 7 N.R. 17 W.
and Tps. 4-5 and 6 N.R. 18 W. of the Salt Creek Bas^ys & Grandin Sect^y.

J. F. Hoffmann, Chainman.
R. J. Favreille, Chainman.

Subscribed and sworn to before me this 8th
 day of April - 1903,



Sam Raney
 Notary Public

WE, J. F. Hoffmann and Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

the subdivision lines of Tps. 5-6 and 7 N.R. 16 W., Tps. 4-5-6 and 7 N.R. 17 W.
Tps. 4-5 and 6 N.R. 18 W. of the Salt Creek Bas^ys & Grandin Sect^y.

J. F. Hoffmann, Moundman
Frank Hoffmann Jr., Moundman

Subscribed and sworn to before me this 8th
 day of April - 1903,



Sam Raney
 Notary Public

WE, R. J. Favreille and Frank Hoffmann Jr.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

the subdivision lines of Tps. 5-6 and 7 N.R. 16 W., Tps. 4-5-6 and 7 N.R. 17 W.
and Tps. 4-5 and 6 N.R. 18 W. of the Salt Creek Bas^ys & Grandin Sect^y.

Frank Hoffmann Jr., Axman

Subscribed and sworn to before me this 8th
 day of April - 1903,



Sam Raney
 Notary Public

I, B. P. Lawrence, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tps. 5-6 and 7 N.R. 16 W., Tps. 4-5-6 and 7 N.R. 17 W. and Tps. 4-5 and 6 N.R. 18 W. of the Salt Creek Bas^ys & Grandin Sect^y. B. P. Lawrence, Flagman

Subscribed and sworn to before me this 8th
 day of April - 1903,



Sam Raney
 Notary Public

My Commission expires August 12th 1905

Subdivision of T. 4 N. R. 18 W.

Clarion	<p>Survey commenced April 23, 1903, and executed with a H. & L. C. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double vernier placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination axes.</p> <p>The instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the surveyor general for Utah April 6, 1903.</p> <p>April 23: at 5^h 26^m a.m., I set at my camp near the centre of sec. 24, T. 5 N. R. 18 W. I observe Polaris at eastern elongation in accordance with manual of instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.</p> <p>At 6^h 50^m a.m. I set off the azimuth of Polaris 1° 36' to the west and mark the meridian thus determined on a stone firmly set in the ground 5 chs. N. of the instrument.</p> <p>At 7^h 40^m a.m., I set off 41° 9' N. on the Lat. arc 12° 17' 30" S. in direction and mark a point in the meridian determined with the solar on the stone already set 5 chs. N. of my station; this mark falls out in east of the meridian established by the Polaris observation which shows a difference or error in the solar of about 20" of arc and I therefore conclude, the adjustments of the instrument are correct and that no further test is necessary.</p> <p>The magnetic bearing of the meridian at 7^h a.m. is N. 17° 50' W.; the angle thus determined gives the mag. decl. 17° 50' E. --</p>
4,000	<p>I begin at the cor. of secs. 1-2-35 and 36 on S. side of T. 4 N. R. 18 W. as heretofore described: then I run N. 10° 1' W. bet. secs. 35 and 36</p>
8,000	<p>Set a porphyry stone 18" x 6" x 5" in. 12 in. in the ground for 44 new cor. marked 44 on N. face: dig pit 18" x 18" x 12 in. N and S of stone 3 ft. deep, and raise a mound of earth 3½ ft. base 15 ft. high N. of cor.</p>
8,000	<p>Set a limestone 16" x 7" x 5" in. 11 in. in the ground for cor. of secs. 25-26-35 and 36 marked with notch on S. and E. edges: dig pit 18" x 18" x 12 in. in each sec.</p>

Subdivision of T. 4 N.R. 18 W.

chain	5½ ft. dist. and raised as mound of earth. 4 ft. base 2 ft. high W. of cor.
	Land flat alkali desert Soil soft sticky clay and salt crust 4 th rate - no vegetation. -
40,00	I right the cor. of acc. 25-30-31 and 36 on E. bdy of Tp. and run East on a random line bet. accs. 26 and 36 Set limb ¼ rec. cor.
80,00	Indirect E. bdy of Tp. at cor. of acc. 25-30-31 and 36: herebefore described. - Thence I run West on a line line bet. accs. 26 and 36
40,00	Set as black siliceous limestone 18×7×5 in. 12 in. in the ground for ¼ rec. cor. marked ¼ on N. face; dig pit 18×18×12 in. E. and W. of stone 3 ft. dist. and raised as mound of earth - 3½ ft. base 1½ ft. high N. of cor. -
80,00	The cor. of accs. 25-26-35 and 36 Land flat alkali desert Soil soft sticky clay. and salt crust, 4 th rate - No vegetation. -
40,00	N. 0° 1' W. bet. accs 25 and 26 Set as limestone 17×7×5 in. 11 in. in the ground for ¼ rec. cor. marked ¼ on W. face; dig pit 18×18×12 in. N. and S. of stone 3 ft. dist. and raised as mound of earth - 3½ ft. base 1½ ft. high W. of cor.
80,00	Set as limestone 15×6×4 in. 10 in. in the ground for cor. of accs. 23-24-25 and 26 marked with 2 matches on S. and 1 match on E. edges; dig pit 18×18×12 in. in each acc. 5½ ft. dist. and raised as mound of earth. 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft sticky clay and crust of salts - 4 th rate - no vegetation. -
40,00	I right the cor. of acc. 19-24-25 and 30 on E. bdy of Tp. and run S 89° 5' 8" E on a random line bet. accs. 24 and 25 Set limb ¼ rec. cor.
79,96	Indirect E. bdy of Tp. at cor. of acc. 19-24-25 and 30 as herebefore described

Subdivision of T. 4 W R. 18 N.

	Thenew I run
39,98	N. 89° 6' 8" W. on a line bet. recs. 24 and 25 Set a porphyry stone 17x6x5 in. - 12 in. in the ground for 14 rec. cor. marked 14 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
19,96	The cor. of recs. 23-24-25 and 26 Land flat alkali desert Soil, soft sticky clay and crust of salt hydrate - No vegetation. -
4,000	N. 0° 1' W. bet. recs. 23 and 24 Deposit a quart of broken glass 12 in. in the ground for 14 rec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. - In S. pit drive a fine slate 2 ft. long 2 in. square 12 in. in the ground marked
8,000	14 S. 23. on N. face and 24 on E. face Set a limestone 16x8x6 in. 11 in. in the ground for cor. of recs. 13-14-23 and 24 marked with 3 notches on S. and 1 notch on E. edges; dig pit 18x18x12 in. in each rec. 3 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil, soft sticky clay, and black mud, with crust of salt hydrate - No vegetation. -
	April 23: At this cor. I set off 12° 20' 30" N. on the decl. arc and at 114° 5' 8" W. on 7 m. - observe the sun on the meridians: the resulting lat. is 41° 4' 19" N.
4,0,00	I right the cor. of recs. 13-18-19 and 24 on E. bdy. of Tp. and run
8,0,00	S. 89° 3' 8" E. on a random line bet. recs. 13 and 24 Set temp. 14 rec. cor. Intersect E. bdy. of Tp. at cor. of recs. 13-18-19 and 24 as heretofore described. -
40,00	Thenew I run N. 89° 3' 8" W. on a line bet. recs. 13 and 24 Set a limestone 18x6x6 in. 12 in. in the ground for 14 rec. cor. marked 14 on N. face; dig pit 18x18x12 in.

Subdivision of T4 N R18 W.

charin	E. and W. of show 3 ft. dist., and raise a mound of earth 3 ft. base 15 ft. high N. of cor.
80,00	The cor. of secs. 13-14-23 and 24 Land flat alkali desert Soil soft, sticky clay and black mud, with salt crust + gravel no vegetation
40,00	N 0° 1' W bet. secs. 13 and 14 Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3-5 ft. base 15 ft. high over deposit. - In S. pit. drive a fine stake 2 ft. long 2 in. sq. 1.2 in. in the ground marked 1/4 S. 14 on W. face and 13 on E. face
80,00	Set a limestone 16x8x5 in. 11 in. in the ground for cor. of recs. 11-12-13 and 14 marked with 4 notches on S. and 1 notch on E. edge; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. - Land flat alkali desert Soil soft, sticky clay and black mud, with salt crust + gravel no vegetation. -
40,00	I sight the cor. of recs. 7-12-13 and 18 on Eddy of Tp. and run East on a random line bet. recs. 12 and 13
40,00	At lump. 1/4 rec. cor.
80,04	Intersect E. bdy. of Tp. at cor. of recs. 7-12-13 and 18 as heretofore described Then west
	West on a line line bet. recs. 12 and 13
40,02	Set a limestone 18x6x5 in. 12 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3-5 ft. base 15 ft. high N. of cor.
80,04	The cor. of recs. 11-12-13 and 14 Land flat alkali desert Soil soft sticky clay and crust of salt + gravel no vegetation. -
	N 0° 1' W bet. recs. 11 and 12

Subdivision of T. 4 N. 12 E. 18 W.

Chain
taro

Deposit of quartz of broken glass 12 in in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over depositi:-

In S. pit drive a fine stake 2 ft. long 2 in sq. 12 in. in the ground marked.

1/4 S. 11. on. W. face and 12. on E. face

Set a limestone 17x8x6 in. 11 in. in the ground for cor. of recs. 1-2-11 and 12 marked with 5 notches on S and 1 notch on E. edge; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land flat alkali desert

Soil soft clay and blackened with crust of salts + brante no vegetation. -

Shift the cor. of recs. 1-2-11 and 12 on E. bdy. of Tp. and run East on a random line bet. recs. 1 and 12

4,000 Set temp. 1/4 rec. cor.

8,000 Intersect E bdy. of Tp. at cor. of recs 1-2-11 and 12 as heretofore described

Flume Trouv

West on a line line bet. recs. 1 and 12

4,000 Set a limestone 17x8x6 in. 12 in. in the ground for 1/4 rec. cor. marked 1/4 rec. N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

The cor. of recs. 1-2-11 and 12

Land flat alkali desert

Soil soft sticky clay with crust of salts + brante no vegetation. -

N 0° 11' W. bet. recs. 1 and 2

4,000 Deposit of quartz of broken glass 12 in in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over depositi:-

In S. pit drive a redwood stake 2 ft. long 2 in sq. 12 in. in the ground marked

1/4 S. 2. on. W. face and 1. on E. face

Subdivision of T. 4 N. 18 W.

Chain 86.74	Intersect the First Standard Parallel North at 6.80 chain N. of the standard cor. of secs. 35 and 36, as heretofore described. Set a limestone 17x8x6 in. 11 in. in the ground for corner cor. of secs. 1 and 2 marked C.C. on S. face with 1 groove on E and 5 grooves on W. faces; dig pit 24x18x12 in. crosswise over each line E and W. 3 ft. and S. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Land flat alkali desert. Soil sticky soft clay and crust of salts 4 ft. rate No vegetation. —
	April 23, 1903
40,00	April 24: Form the cor. of secs. 2-3-34 and 35 on S. side of T.P. as heretofore described I run N. 0° 2' W. bet. secs. 34 and 35 Set a porphyry stone 18x6x5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. Soil sticky soft clay and crust of salts 4 ft. rate No vegetation
80,00	Set a limestone 16x8x5 in. 11 in. in the ground for cor. of secs. 26-27-34 and 35 marked with 1 notch on S and 2 notches on E. edge; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil, sticky, soft. clay with crust of salts, 4 ft. rate No vegetation
40,00	East on a random line bet. secs. 26 and 35 Set a limestone 1/4 sec. cor. Intersect N. and S. line at cor. of secs. 25-26, 35 and 36 I run
80,00	West on same line bet. secs. 26 and 35 Set a limestone 16x7x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. The cor. of secs. 26-27-34 and 35 Land flat alkali desert Soil sticky clay and crust of salts 4 ft. rate

Subdivision of T. 4 N. 18 W.

Chain

No. vegetation

	N. 0° 2' W. bet. recs. 26 and 27
4,000	Set a limestone 16x8x5 in. 11 in in the ground for 1/4 acre cor. marked 44 on W. face; dig pit 18x18x12 in. N and S of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Set a limestone 18x6x5 in 12 in. in the ground for cor. of recs. 22-23-26 and 27 marked with -2 notches on S. and E. edges; dig pit 18x18x12 in in each rec. 5 1/2 ft. dist. and raise a mound of earth -4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft sticky clay and crust of salts - 4 th rate - No vegetation
4,000	I sight the cor. of recs 23-24-25 and 26 and run N 89° 5' 7" E on a random line bet. recs. 23 and 26 Set a limestone 11/4 sec cor.
8,000	Indicated N and S. line at cor. of recs. 23-24-25 and 26 Thence down S 89° 5' 7" W. on a tree line bet. recs 23 and 26
4,000	Set a limestone 16x8x4 in 11 in in the ground for 1/4 acre cor. marked 14 on W. face; dig pit 18x18x12 in. E. and S. of stone 3 ft. dist. and raise a mound of earth -3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	The cor. of recs. 22-23-26 and 27 Land flat alkali desert Soil soft sticky clay and crust of salts - 4 th rate - No vegetation
	N 0° 2' W bet. recs. 22 and 23
4,000	Deposit - a mark of broken glass 12 in. in the ground for 1/4 acre cor; dig pit 18x18x12 in. N and S of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit;
	In 3 pit drive a redwood stake 2 ft. long 2 in. sq. 12 in in the ground marked
	1/4 S. 22 on W. face and 23 on E face
8,000	Set a limestone 16x8x5 in. 11 in in the ground for cor. of recs. 14-15-22 and 23 marked with 3 notches on

Subdivisions of T 4 N R 18 W

		S. and. m. notches on E. edge; a dig. pit: 18x18x12 in. in each rec. 3 1/2 ft. dirt. and raise a mound of earth 4 ft. base 2 ft. high. M. J. cor. Land flat. alkali desert Soil: soft clay and black mud, with crust of salt. 4 in. thick No vegetation
		April 24: at this cor. I set off 12° 40' 0" N. on due dist. arc. and at 11:58 a.m. I met - observed the sun on the meridian; the resulting lat. is 41° 41' 19" N.
		I sight the cor. of recs. 13-14-23 and 24 and run East on a random line bet. recs. 14 and 20 Set a line. 14 ac. cor. Directed N. and S. line at cor of recs. 13-14-23 and 24 Then I run West on a true line bet. recs. 14 and 20 Set a limestone 16x8x5 in., 11 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit: 18x18x12 in. E and W. of stone 3 ft. dirt. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
	79,98	The cor. of recs. 14-15-22 and 23 Land flat alkali desert Soil, soft sticky clay and black mud, with salt crust. 4 in. thick No vegetation. —
		N. 0° 2' W. bet. recs. 14 and 15
	40,00	Deposited a quart of broken glass 12 in. in the ground for 1/4 ac. cor.; dig pit: 18x18x12 in. N and S of cor. 4 ft. dirt. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. In S. pit drove a redwood stake 2 ft. long 2 in. sq 12 in. in the ground marked 1/4 S. 0° 2' W. face and 1/4 W. face
	80,00	Set a limestone 15x6x6 in. 10 in. in the ground for cor. of recs. 10-11-14 and 15 marked with 4 notches on S and 2 notches on E. edge; a dig. pit: 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat. alkali desert Soil sticky clay and black mud, with salt crust. 4 in. thick No vegetation

Subdivision of T 4 N. 12 W.

Chain	I sight the cor. of secs. 11-12-13 and 14, and run S. 89° 57' E. as a random line bet. secs. 11 and 14
4000	Set at length 1/4 sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 11-12-13 and 14 Thinner I run
	S 89° 57' W. on a line line bet. secs. 11 and 14
40.00	Set as limestone 16 x 8 x 6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. 6 ft. and on. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.00	The cor. of secs. 10-11-14 and 15— Land flat alkali desert Soil stiff, sticky clay and black mud, with crust of salts; 4 ft. salt. No vegetation.—
	N 0° 2' W. bet. secs. 10 and 11
40.00	Deposit as quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18 x 18 x 12 in. N and S of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In 8 ft. drive a redwood stake 2 ft. long 2 in sq 12 in. in the ground marked
	1/4 S. 10 on N. face and 11 on E. face
80.00	Set as limestone 17 x 7 x 6 in. 11 in. in the ground for cor. of secs. 2-3-10 and 11 marked with 5 notches on S. and 2 notches on E. edges; dig pit 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert Soil sticky clay and black mud, with crust of salts; 4 ft. salt. No vegetation.—
	I sight the cor. of secs. 1-2-11 and 12 and run
	East on a random line bet. secs. 2 and 11
40.00	Set length 1/4 sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 1-2-11 and 12 Thinner I run
	West on a stone + line bet. secs. 2 and 11
40.00	Set as limestone 16 x 8 x 6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. E and on. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base

Subdivision of T. 4. N. 12. 18. M.

chain	13 ft. high N of cor.
8000	the cor. of acrs. 2-3-10 and 11 Land flat alkali desert Soil soft sticky clay and black mud, with crust of salt; 4 th rate. No vegetation. —
40,000	April 24: at 4° 57' " p. m., I set off 41° 6' N. on the lat. and 12° 45' 45" N. on the decl. and determine a meridian with the solar at the cor. of acrs. 2-3-10 and 11 three times. N. 0° 2' W. bet. secs. 2 and 3 Deposits a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig. pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposits: In S. pit drive a pine stake 2 ft. long 2 in. ap. 12 in. in the ground marked 1/4 S. 3 on W. face and 2 on E. face 86.76 Intersect the First Standard Parallel North at 6.84 dis. N. of the standard cor. of acrs. 34 and 35 as heretofore described Set a limestone 17x8x5 in. 11 in. in the ground for closing cor. of acrs. 2 and 3 marked c. c. on S. face with 2 grooves on E. and 4 grooves on W. face: dig pit 24x18x12 in. crosswise on each line E and W. 3 ft. and S. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Land flat alkali desert Soil sticky soft clay with crust of salt 4 th rate No vegetation. —
	April 24, 1903
40,000	April 25: From the cor. of acrs. 3-4-33 and 34 on S. side of T. 4. as heretofore described I run N. 0° 2' W. bet. secs. 33 and 34 Set a limestone 17x8x5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80,000	Set a limestone 15x8x6 in. 10 in. in the ground for cor. of acrs. 27-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edge: dig pit 18x18x12 in. in each cor. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat alkali desert.

Subdivision of T & N R 18 W.

Chain	Soil soft, sticky clay and crust of salt - 4 miles No vegetation. -
4,000	East on a random line bet. secs. 27 and 34 Set temp. 1/4 sec. cor.
8,000	Intersect N. and S. line at cor of secs. 26-27-34 and 36 - Thunder River
4,000	West on a line bet. secs. 27 and 34 Set a limestone 15x8x6 in. 10 in in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	The cor. of secs. 27-28-33 and 34 Land flat alkali desert Soil sticky clay and crust of salt - 4 miles No vegetation. -
4,000	N 0° 2' W bet. secs. 24 and 28 Set a porphyry stone 16x8x4 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a limestone 17x6x5 in. 11 in. in the ground for cor. of secs. 21-22-27 and 28 marked with 2 notches on S. and 3 notches on E. edges: dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth. 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft clay with crust of salt - 4 miles No vegetation. -
4,000	East on a random line bet. secs. 22 and 27 Set temp 1/4 sec. cor.
8,000	Intersect N. and S. line at cor of secs. 22-23-26 and 27 Thunder River
4,000	West on a line bet. secs. 22 and 27 Set a limestone 15x7x5 in. 10 in in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	The cor. of secs. 21-22-27 and 28

Subdivision of T. 4 N. R. 18 W.

charms	<p>Land flat alkali desert Soil soft sticky clay and crust of salts - 4 ft. thick No vegetation.</p> <p>April 25: At 9^h 56^m a.m., I set off 41° 3' 27" N. from the lat. arc. 12° 58' 30" N. on the decl. arc and determined a meridian with the solar at the cor. of recs. 21-22-27 and 28. Then I ran N 0° 2' W bet. recs. 21 and 22. -</p>
40,000	<p>Geforite or quartz of broken glass 12 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3 ft. fl. base 1 1/2 ft. high over deposit. - In S. pit drive a fine stake 2 ft. long 2 in. sq. 1/2 in. in the ground marked 1/4 52 1/2 in. N. face and 2 1/2 in. S. face. Bed of limestone 16x6x6 in. 11 in. in the ground for cor. of recs. 15-16-21 and 22 marked 4 N. on N. E. and 18 W on S. E. faces with 3 switches on S. and E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.</p> <p>Land flat alkali desert Soil soft sticky clay with crust of salts - 4 ft. thick No vegetation. -</p>
80,000	<p>Right the cor. of recs. 14-15-22 and 23 and run N 89° 58' E on a random line bet. recs. 15 and 22. Set a temp. 1/4 rec. cor.</p> <p>Intersect N and S line at cor. of recs. 14-15-22 and 23. Then I ran N 89° 58' W on a true line bet. recs. 15 and 22.</p> <p>Set a limestone 16x9x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and S. of above 3 ft. dist. and raise a mound of earth - 3 ft. fl. base 1 1/2 ft. high N. of cor. -</p> <p>S. in cor. of recs. 15-16-21 and 22</p> <p>Land flat alkali desert soft sticky clay and crust of salts - 4 ft. thick No vegetation.</p> <p>April 25: at this cor. I set off 13° 0' N. on the decl. arc and at 11^h 58^m a.m., I run the sun on the meridian; the resulting lat. is 41° 4' 19" N.</p>
	N 0° 2' W bet. recs. 15 and 16

Subdivision of T. 4 N. 13 S. 18 W.

Claims	
40,00	<p>Deposit: a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18 x 18 x 12 in. around S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit:-</p> <p>In S. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>1/4 S. 16 on W. face and 15 on E. face.</p>
80,00	<p>Deposit: a quart of broken glass 12 in. in the ground for cor. of secs. 9-10-15 and 16; dig pit 18 x 18 x 12 in. each sec. 4 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high over deposit:-</p> <p>In S.E. pit drive a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>T. 4 N. S. 10 on N.E. R 18 W. S. 15 on S.E. S. 16 on S.W. and S. 9 on N.W. face: with 4 switches on S and 3 switches on E edges.-</p> <p>Land flat alkali desert</p> <p>Soil black and with thick crust of clay and slate no vegetation -</p>
40,00	<p>Right the cor. of secs. 10-11-14 and 15 and run East on a random line bet. secs. 10 and 15 -</p> <p>Det. line 1/4 sec. cor.</p>
79,98	<p>Intersect N and S line at cor. of secs. 10-11-14 and 15 -</p> <p>Then run</p> <p>West on a true line bet. secs. 10 and 15 -</p>
39,99	<p>Deposit: a quart of broken glass 12 in. in the ground for 1/4 sec. cor; dig pit 18 x 18 x 12 in. E and S. of cor. 4 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit:-</p> <p>In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>1/4 S. 10 on N. face and 15 on S. face</p> <p>The cor. of secs. 9-10-15 and 16</p> <p>Land flat alkali desert</p> <p>Soil clay and black mud, mucky, and heavy crust of clay 4 ft. slate -</p> <p>No vegetation</p>

Subdivision of T. 4 N. R. 18 W.

Clarion	
	X 0° 2' W. bet. recs. 9 and 10
4,000	Deposit of quartz of broken glass 12 in. in the ground for 1/4 acr. cor.; dig pit 18x18x12 in. N and S of cor. 4 ft. dist. and raised as mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit; Dr. S. pit drive a few stakes 2 ft. long 2 in. sq. 12 in. in the ground marked
	145 9 on N. face and 10 on E. face
8,000	Set as limestone 15x8x6 ins. 10 in. in the ground for cor. of recs. 3-4-9 and 10 marked with 5 matches on S. and 3 matches on E. edges; dig pit 18x18x12 in. in each rec. 6 1/2 ft. dist. and raised as mound of earth - 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert
	Soil soft clay, and black mud, with deep crust of salts 4th rate No vegetation. --
	On right the cor. of recs. 2-3-10 and 11 and recs.
	Each on a random line bet. recs. 3 and 10
4,000	Set lime 1/4 acre cor
7,998	Intersect N. and S. line at cor. of recs. 2-3-10 and 11
	Three Draw
	West on a base line bet. recs. 3 and 10
3,999	Set as limestone 15x8x6 ins. 10 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E and W. of stream 3 ft. dist. and raised as mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
7,998	The cor. of recs. 3-4-9 and 10
	Land flat alkali desert
	Soil soft clay with crust of salts 4th rate
	No vegetation. --
	X 0° 2' W. bet. recs. 3 and 4
4,000	Deposit of quartz of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raised as mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit; Dr. S. pit drive a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	145 4 on N. face and 3 on E. face
8,680	Intersect First Standard Parallel North at 6.78 chs W. of the standard cor. of recs. 33 and 34 as heretofore described
	Set as limestone 17x8x6 ins. 12 in. in the ground for

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Subdivision of T. 4 N. R. 18 W.

Chain closing cor. of recs. 3 and 4 marked C. C on S. face with -3 grooves - on E and W. faces; dig pit: 24x18x12 in. crosswise on each line E. and W. 3 ft. and S. of stone. 7 ft. dist. and raise a mound of earth. 4 ft. base 2 ft. high S. of cor. Land flat alkali desert
Soil soft sticky clay with crust of calce - 4th rate - No vegetation. -

April 25, 1903

April 26: From the cor. of recs. 4-5-32 and 33 on S. bdy of T. 4, as heretofore described I run
N. 0° 3' W. bet. recs. 32 and 33

4000 Set a porphyry stone 17x6x6 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high W. of cor.

8000 Set a limestone 15x8x5' in., 10 in. in the ground for cor. of recs. 28-29-32 and 33 marked with 1 notch on S. and 4 notches on E. edges; dig pit: 18x18x12 in. in each rec. 6 1/2 ft. dist. and raise a mound of calce - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert

Soil soft sticky clay and crust of calce - 4th rate - No vegetation. -

East on a random line bet. recs. 28 and 33

Set limb. 1/4 sec. cor.

8000 Intersect N and S. line at cor. of recs. 24-28-33 and 34
Three times

West on a true line bet. recs. 28 and 33

4000 Set a porphyry stone 17x7x5' in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high N. of cor.

The cor. of recs. 28-29-32 and 33

Land flat alkali desert

Soil soft sticky clay, and crust of calce, 4th rate - No vegetation. -

N. 0° 3' W. bet. recs. 28 and 29

4000 Set a limestone 17x6x5' in., 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. N. and S.

Subdivision of T. 4 M. 12 S. 8 W.

	chain of stone off dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8000	Deposit in a quart of broken glass 12 in. in the ground for cor. of secs. 20-21-28 and 29; dig pit 18x18x12 in. in each sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit; In S.E. pit drive a pine stake 2 ft. long 2 in sq. 12 in in the ground marked T. 4 N. S 21 on N.E. R 18 W S 28 on S.E. S. 29 on S.W. and S. 20 on N.W. faces; with 2 notches on S and 4 notches on E edges. — Land, flat alkali desert Soil soft, wiry clay and mud with crust of salt 4 ft. ratio no vegetation. —
40,00	East on a random line bet. secs. 21 and 28 Bet temp 1/4 sec. cor.
80,04	Intersect N and S. line at cor. of secs. 21-22-27 and 28 Tunco Draw West on a true line bet. secs. 21 and 28
4002	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. — In E. pit drive a redwood stake 2 ft. long 2 in sq. 12 in in the ground marked 1/4 S 21 on N. face and 28 on S. face
80,04	The cor. of secs. 20-21-28 and 29 Land, flat alkali desert Soil soft, wiry clay and ooze, with crust of salt, 4 ft. ratio no vegetation
4000	N 0° 3' W. bet. secs. 20 and 21 Deposit a quart of broken glass 12 in in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. — In S. pit drive a pine stake 2 ft. long 2 in sq. 12 in. in the ground marked

Subdivision of T. 4 N. 12 W.

Chain	145. 20 on W face and 21 on E face
8.000	Deposit a quart of broken glass 12 in. in the ground for cor. of recs. 16-17-20 and 21; dig pit 18x18x12 in. in each rec. 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit. - In S.E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked T. 4 N. S. 16 on N.E.
	R 18 W. S. 21 on S.E.
	S. 20. on S.W. and
	S. 17. on N.W. faces with 3 notches on S. and 4 notches on E. edges. - Land flat alkali desert Soil soft sticky clay and black mud with crust of salt. <u>4 ft. ratio</u> No vegetation. -
40.00	East on a random line bet. recs. 16 and 21 at Lining 1st rec. cor.
80.00	Interval N and S. line at 7 lbs N. of cor. of recs. 16-17-21 and 22 Thence S run
40.00	N. 89° 57' W. on a line bet. recs. 16 and 21 Deposit a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. - In E. pit drive a redwood stake 2 ft. long 2 in. sq 12 in. in the ground marked
80.00	145 16 on N. face and 21 on S. face The cor. of recs. 16-17-20 and 21 Land flat alkali desert Soil soft black mud and clay. <u>4 ft. ratio</u> No vegetation. -
	April 26: at this cor. I set off 13° 20' W. on the decl. arc and at 114° 58' m a m, first observed the sun on the meridian; the resulting lat. is 41° 4' 19" N.
40.00	N. 0° 3' W. bet. recs. 16 and 17 Deposit a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. N and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over

Subdivision of T 4 N 12 W

	charin	deposit. - On S. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked.
8,000		1/4 S. 17 on W. face and 1/4 on E. face Set as limestone 16 x 6 x 6 in. 11 in. in the ground for cor. of recs. 8-9-16 and 17 marked with 4 notches on S. and E. edges; dig pit 18 x 18 x 12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft sticky clay and black mud, 4 th rate - No vegetation
4,000		8 89° 5' 7" E on a random line bet. recs. 9 and 16 Set temp. 1/4 rec. cor.
8,0,04		Intersect N. and S. line 7 1/2 ft S of cor of recs. 9-10-15 and 16 Then run West. on a true line bet. recs. 9 and 16
4,0,02		Set as limestone 16 x 6 x 6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,0,04		The cor. of recs. 8-9-16 and 17 Land flat alkali desert Soil soft sticky clay and black ooze, with heavy crust of salt 4 th rate - No vegetation
4,0,00		April 26: at 24 45 m from 7 m 7" I set off 41° 5' N. on the lat. arc 13° 22'. 7" N. on the decl. arc and determine a meridian with the solar at the cor. of recs. 8-9-16 and 17 Then run N. 0° 3' W. bet. recs. 8 and 9
4,0,00		Set as quartzite above 17 x 6 x 5 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor
8,0,00		Set as limestone 16 x 7 x 6 in. 10 in. in the ground for cor. of recs. 4-5-8 and 9 marked with 4 notches on E. and 5 notches on S. edges; dig pit 18 x 18 x 12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft.

Subdivision of T. 4 N. 12, 18 W.

chain	bare 2 ft. high N. of cor. Land flat alkali desert Soil soft sticky clay and black mud, with heavy crust of salts + slate No vegetation
40,00	I sight the cor. of sec. 3-4-9 and 10 and run S 89° 58' E. on a random line bet. sec. 4 and 9 Set triang. 1/4 sec. cor.
8,000	Intersect N. and S. line at cor. of secs. 3-4-9 and 10 Then I run N 89° 3' 8" W on a true line bet. sec. 4 and 9
40,00	Set a limestone 14 x 8 x 3' inc. 11 inc. in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18 x 18 x 12 inc. E. and W of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	The cor. of secs. 4-6-8 and 9 Land flat alkali desert Soil soft sticky clay and black mud with crust of salts + slate No vegetation
40,00	N. 0° 3' W bet. secs. 4 and 5 Deposit a quart of broken glass 12 inc. in the ground for 1/4 sec. cor. - dig pit 18 x 18 x 12 inc. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. - In S. pit drive ^a fine stake 2 ft. long 2 inc. sq. 12 inc. in the ground marked 1/4 S. 5' on W. face and 4 on E. face
86,78	Intersect the First Standard Parallel North at 6.67 cm W. of the standard cor. of secs. 32 and 33 as heretofore described - Deposit a quart of broken glass 12 inc. in the ground for closing cor. of secs. 4 and 5; dig pit 24 x 18 x 12 inc. crosswise on each line S. E. and N. of cor. 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit. - In E. pit drive a fine stake 2 ft. long 2 inc. sq. 12 inc. in the ground marked C.C T 4 N. R. 18 W on S.

Subdivision of T. 4 N. 12 W.

Chim	34 on E and 35 on W. faces: with - 4 grooves on E and 2 grooves on W. faces. Land, flat alkali desert Soil, soft, sticky clay and black mud, with crust of salts 4 th rate No vegetation
	April 26, 1903
4,000	April 27: At 7 ^h 10 ^m a.m., I set off 41° 1' 30" N. on the lat. arc 13° 36' N. on the decl. arc and determine with the polar axis meridian at the cor. of recs. 5-6-31 and 32 on S. bdy of Tp as hitherto described then Orms N. 0° 41' W. bet. recs. 31 and 32
4,000	Set a limestone 16 x 7 x 5' in 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 ¹ / ₂ ft. base 15 ft. high W. of cor.
8,000	Set a limestone 15 x 7 x 6 in., 10 in. in the ground for cor. of recs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges; dig pit 18 x 18 x 12 in. in each rec. 5 ¹ / ₂ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft, sticky clay with crust of salts - 4 th rate No vegetation
4,000	East on a random line bet. recs. 29 and 32
4,000	Set temp. 1/4 rec. cor.
8,000	Indirect N. and S. line at cor. of recs. 28-29-32 and 33 Flame 1 mm
	West on a true line bet. recs. 29 and 32
4,000	Set a limestone 15 x 8 x 5' in., 10 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 ¹ / ₂ ft. base 15 ft. high N. of cor.
8,000	The cor. of recs. 29-30-31 and 32 Land flat, alkali desert Soil soft, clay and black mud with crust of salts - 4 th rate No vegetation

Subdivision of T 4 N R 18 W.

Chain	
	From survey of Guide Meridian I know I am not close on cor. of secs. 26-30-31 and 36 within limit Therefore I run
	West bds. secs. 30 and 31 on true line
4,000	Set a limestone 17x6x5 in. 12 in. in the ground for 1/4 section marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
6,000	Leave barren alkali desert and enter salt grass and thorny shrub cover N. and S.
7,781	Intersect the Guide Meridian at 96 Lks. 50° 8' W. from the cor. of secs. 25-30-31 and 36 as heretofore described Set a quartzite stone 16x8x5 in. 11 in. in the ground for closing cor. of secs. 30 and 31 marked C.C. on E. face with 1 groove on S. and 5 grooves on N. faces; dig pit 24x18x12 in. crosswise on each side N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high E. of cor. - And obliterate all markings from old cor. of secs. 25-30-31 and 36 referring to secs. 30 and 31 Land flat alkali desert and salt grass meadow Soil clay with white crust of salts - 4th rate No timber Salt grass and thorny shrub undergrowth on 17,81 chain
	N. 0° 4' W. bds. secs. 29 and 30
4,000	Sediment a quart of broken glass 12 in. in the ground for 1/4 acre cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 30 on W. face and 29 on E. face
8,000	Deposit a quart of broken glass 12 in. in the ground for cor. of secs. 19-20-29 and 30; dig pit 18x18x12 in. in each sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit In S. E. pit drive a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked T. 4 N. S. 20 on N. E.

Subdivision of T. 4 N. R. 28 W.

claims	R 18 N. S. 29 and S. E. S. 30 on S. W. and S. 19 on N. W. face with 2 sections S and S' not their on G. edges Land flat alkali desert Soil, soft, clay and black ooze with heavy crust of salts 4 ft. nate No vegetation
40,000	East on a random line bet. secs 20 and 29 Set. fence 1st rec. 30 ft.
8000	On the rec. N. and S. line. 9 lbs. N. of cor. of secs. 20-21-28 and 29 Thereon fence
	At 89° 5' 6" W. on a line bet. recs. 20 and 29
40,000	Deposit a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	In E. pit drive a fine stake 2 ft. long 2 in. sq. 12 in in the ground marked
	1/4 S. 20 on N. face and 29 on S. face
80,000	The cor. of secs. 19-20-29 and 30 Land flat alkali desert Soil, soft, sticky clay and black ooze with heavy crust of salts, 4 ft. nate No vegetation
	From the resurvey of Guide Meridian I know I can not close on the cor. of secs. 19-24-25 and 30 within limit Therefore fence
	West bet. secs. 19 and 30 on fence line
40,000	Deposit a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	In E. pit drive a fine stake 2 ft. long 2 in. sq. 12 in in the ground marked
	1/4 S. 19 on N. face and 30 on S. face
47,500	Leave alkali desert, enter salt grass course N. and S.
60,000	Earlier driven underground courses N. and S.

Subdivision of T. 4 N. R. 18 W.

Chain 78.00	Intersect Guide Boundary at 2.02 chs 50°17' E of the cor. of secs 19-24-25 and 30 as heretofore described. Set w. quartzite stone 16x8x5 in. 11 in. in the ground for closing cor. of secs 19 and 30 marked C.C. on E. face with 2 grooves on S and 4 grooves on N. faces; dig pit 24x 18x12 in. crosswise over each line N and S of pt. and E. of above 7 ft. deep and raise a mound of earth - 4 ft. base 15 ft. high. E. of cor.; and remove markings for sec. 19 and 30 from old cor. Land flat alkali desert and, levels salt grass n. meadow soil, soft clay, and mud, with crust of salt and. Harder soil with less alkali on last 18 chs 4th rate. No timber Dense undergrowth of thorny shrub on 18.00 chs. — April 27: At this cor. I set off 13° 39' N on the due arc and at 11' 68" a.m. I first observe the sun on the meridian the resulting lat. is 41° 3' 27" N.
30.00	N. 0° 4' W. betw. secs. 19 and 20
40.00	Earlier crest of white crystallized salt 1 in. thick Deposit w. quartz of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 15 ft. high over deposit.
80.00	In S. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 19 on N. face and 20 on E. face Deposit w. quartz of broken glass 12 in. in the ground for cor. of secs. 17-18-19 and 20; dig pit 18x18x12 in. dist. each sec 4 ft. dist. and raise a mound of earth: 4 ft. base 2 ft. high over deposit. In S.E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked T 4 N. S 17 on N.E. R 18 W S 20 on S.E. S 19 on S.W. and S. 18 on N.W. faces with 3 notches on S. and 3 notches on E. edges Land flat alkali desert Soil soft sticky clay and ooze with crust of salt - 4th rate. No vegetation

Subdivision of T. 4 N. R. 18 W.

Chain	
	589° 56' E on a random line bet. secs. 17 and 20.
4000	Set limb 1/4 sec. cor.
80,06	Intersect N. and S. line 9 lbs. S of cor. of secs. 16-14-20, and 21. Turns I run West. on a true line bet. secs. 17 and 20
44,003	Deposit: a quart of broken glass 12 in. in the ground for 1/4 sec. cor. marked 1/4 sec. N. face; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.— In E. pit drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 17 on N. face and 20 on S. face
80,06	The cor. of secs. 17-18-19 and 20 Land flat alkali desert Soil soft, sticky clay and black ooze with thick crust of salt 4 th rate— No vegetation.—
	Knowing from resurvey of Guide meridian I can not close on cor. of secs. 13-18-19 and 24 within limit I run West. bet. secs. 18 and 19 on true line
40,00	Deposit: a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth: 3 1/2 ft. base 1 1/2 ft. high over deposit.— In E. pit, drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 18 on N. face and 19 on S. face
55,00	Leave alkali desert; enter salt-grass meadow bears N. and S.
59,00	& other dense undergrowth - bears N. and S.
78,40	Intersect Guide Meridian at 2.76 ch 3.0° 21' E. of cor. of secs. 13-18-19 and 24 as heretofore described Set a quartette stone 17x8x6 in 11 in. in the ground for closing cor. of secs. 18 and 19 marked C.C. on E. face with 3 grooves on N. and S. faces; dig pit 24x18x12 in. crosswise on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high E. of cor. - and remove markings for secs. 18 and 19 from old cor. Land, flat, barren alkali desert, and fringe of salt grass meadow.

Subdivision of T. 4 N. R. 18 M.

Charter 4	Soil soft sticky clay and black ooze, with crust of salts, and evanescing 4 th rate Dunes underneath of thorny shrub over 19,400 cu.
4,000	N 0° 4' W. bet. secs. 17 and 18 Deposit of quartz of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pits 18x18x12 in N. and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft base 1 1/2 ft. high over deposit;
6,000	In S. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 18 over W. face and 17 over E. face
8,000	Bottom clear salt water 2 to 3 ins. deep bears E. and W. Deposit of quartz of broken glass 12 in. in the ground for cor. of secs. 7-8-17 and 18; dig pits 18x18x12 in in each sec 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit.
	In S. E. pit drove a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	T. 4 N. S. 8 over N. E.
	R 18 W S 17 over S. E.
	S 18 over S. E. and
	S 7 over N. W. faces; with 4 notches over S and 5 notches over E. edges
	Land flat alkali desert, periodically covered with water in certain parts. -
	Soil sticky clay and black mud with crust of salts - 4 th rate
	No vegetation
	—
	April 27, 1903

April 28: From the cor. of secs 7-8-17 and 18 above described
I run

East over a random line bet. secs. 8 and 17

4,000 Rd length. 1/4 sec. cor.

8,000 Subsidiary N. and S. line 10 ft. S. of cor. of secs. 8-9-10 and 17
Thence I run

S. 89° 5' W. on a line line bet. secs. 8 and 17

4,000 Rd a limestone 17x6x5' in. 11 in. in the ground for
1/4 sec. cor marked 1/4 over N. face; dig pits 18x18x12
in. E. and W. of stone 3 ft. dist. and raise a mound of

Subdivision of T. 4 N. 12 W. m.

Chain	earth - 35 ft. base 1 1/2 ft. high N. of cor.
55.00	Enter clear salt water 2 to 3 ins deep. bears N and S.
80.00	The cor of recs. 7-8-17 and 18 Land flat alkali desert, periodically covered with water in parts soil sticky clay and black mud with crust of salts 4 ft. thick no vegetation.-
	Knowing from recovery of Divide Meridian I can not close on cor. of recs. 7-12-13 and 18 within limit I run West bet. recs. 7 and 18 on true line Through clear salt water 1 to 3 ins deep
40.00	Deposit of quartz of broken glass 12 ins in the ground for 1/4 ac. cor.; dig pit 18x18x12 ins. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 35 ft. base 1 1/2 ft. high over deposit.- In E. pit drive a pine stake 2 ft. long 2 ins sq. 12 ins in the ground marked
	14 S. 7. on N. face and 18 on S. face
46.00	Leave water bears N and S.
60.00	Leave alkali desert, enter swampy salt grass meadow and dense undergrowth. bears N and S.
78.80	Intersect Guide meridian at 3.42 ch. S 0° 22' E of cor of recs. 7-12-13 and 18 as heretofore described Set a quartzite stone 16x7x6 ins. 11 ins. in the ground for closing cor. of recs. 7 and 18 marked C.C. on E. face with 4 grooves on S and 2 grooves on N. faces; dig pit 24x 18x12 ins. crosswise on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high E. of cor. And remove markings for recs. 7 and 18 from older. Land alkali desert periodically covered with water in parts and salt grass meadow Soil, sticky clay and mud, crusted with salts, 4 ft. thick Dense undergrowth of thorny shrub on 18.80 ch.
	N. 0° 4' W bet. recs. 7 and 8
	Through clear salt water 2 to 3 ins deep
35.00	Leave water. bears N. W. and S. E. -
40.00	Deposit of quartz of broken glass 12 ins. in the ground for 1/4 ac. cor.; dig pit 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 35 ft. base 1 1/2 ft. high over deposit. In S. pit drive a pine stake 2 ft. long 2 ins sq. 12 ins

Subdivision of T. 4 N. 18 M.

	chains in the ground marked 14 S. 7 on W. face and 8 on E. face
8,000	Deposit of quartz of broken glass 12 in. in the ground for cor. of secs. 5-6-7 and 8; dig pit 18x18x12 in. in each sec. 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit. - In S.E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked T. 4 N. 18 M. 7 on N.E.
	R 18 W S. 8 on S.E. S 7 on S.W. and S. 6 on N.W. faces with 3' notches on S and E edges Land flat alkali desert, periodically covered with water in parts Soil, sticky clay and mud with crust of salts - 4 ft. salt No vegetation.
	April 28: at 9 h 55 m a m, I set off 41° 6' N. on the lat. arc. 13° 57' 30" N. on the decl. arc and determine with the compass a meridian at the cor. of secs. 6-6-7 and 8. Then I run N 89° 3' 6" E over a random line bet. secs 5 and 8 At 10 a.m. 1/4 sec. cur.
4,000	Intersect W. and S. line 4 lbs. N of cor. of secs. 4-5-8 and 9. Hence I run
	West on a true line bet. secs. 5 and 8
4,005	Deposit of quartz of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E and W of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 15 ft. high over deposit In E pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 5 on N. face and 8 on S. face
8,010	The cor. of secs. 5-6-7 and 8 Land flat alkali desert Soil sticky, soft, clay and black ooze, with crust of salts - 4 ft. salt No vegetation. -

	Running from survey of Guide meridian I run not close on cor. of secs 1-6-7 and 12 within limit I run West bet. secs. 6 and 7 on true line
4,00	Bottom clear salt water 2 to 3 in. deep. course N and S Deposit of quartz of broken glass 12 ins. in the ground for
4,000	

1/4 sec. cur. not close on cor. of secs 1-6-7 and 12 within limit I run
West bet. secs. 6 and 7 on true line
Bottom clear salt water 2 to 3 in. deep. course N and S
Deposit of quartz of broken glass 12 ins. in the ground for

Subdivision of T. 4 N. R. 18 W.

	chain 44 acc. corr.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 6 on N. face and 4 on S. face
6,000	Leave water, bear N. and S.
69,00	Leave alkali desert; enter salt grass meadow, bear N. and S.
74,00	Enter dense undergrowth - bear N. and S.
78,87	Intersect Guide Meridian at 4.47 chs. 80° 20' W. from cor. of recs. 1-6-7 and 12 as heretofore described Set a quartzite stone 17x8x5 in. 11 in in the ground for closing cor. of recs. 6 and 7 marked C.C. on E. face; with 1 groove on N. and 5 grooves on S. faces; dig pit 24x18x12 in. crosswise on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high E. of cor. And remove all markings referring to recs. 6 and 7 from old cor. of recs 1-6-7 and 12 Land flat, alkali desert and fringe of salt grass meadow periodically covered with water in part Soil sticky clay and black mud 4 ft. mali Dense undergrowth of thorny shrub on 4.87 chs. -
	April 28: The sky being overcast during the noon hour, I could obtain no observation on the sun, on the meridians.
	N. 0° 4' W. bet. accs. 5 and 6
40,00	Deposit a quart of broken glass 12 in. in the ground for 14 rec. cor.; dig pit 18x18x12 in. N. and S. of cor 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. In S. pit drive a pine stake 2 ft. long 2 in sq. 12 in. in the ground marked 14 S. 6. on N. face and 5 on S. face
86,72	Intersect First Standard Parallel North at 6.62 chs. West of the standard cor. of recs. 31 and 32 as heretofore described Deposit a quart of broken glass 12 in. in the ground for closing cor. of recs. 5 and 6; dig pit 24x18x12 in. crosswise on each line S. E. and W. 4 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high over deposit - In E. pit drive a pine stake 2 ft. long 2 in sq. 12 in. in the ground marked C.C. T 4 N. R. 18 W. on S.

Subdivision of T. 4, N. 13. 18 W.

claim 55 on E and
56 on face, with 1 groove on W. and 3 grooves on E. faces
Land flat alkali desert
soil soft sticky clay and black ooze, with crust of salt-
4th rate
no vegetation.

I return to the meridian established April 16 from
Polaris, at the standard cor. of T 6 N R 18 and 19 W. and
described in "Book F" - At 3⁴ 10^m p.m. I set off 14°
01' N. on the decl. arc., and test the adjustment of
my solar, finding it gives the same meridian as
before, and adjustment correct. -

April 28. 1903

General Description

This township with the exception of a narrow
fringe of salt grass meadow, ^{and dense underground} along the west edge, is
all a barren alkali desert, without any vegetation
whatever. -

A portion of the North westerly corner is covered with
a thin sheet of water during the spring and
early summer months which comes from the
melting snow on the Pilot Peak Range to the west,
and melting the thick layer of salt on the desert
becomes a super saturated brine on top of a
glistening crust of salt. -

The central and west part of the township is not
passable with team and a pack-animal would mire
and we therefore had to carry and drag the stones
and other material used for corner while wading
the mud and salt water. -

There are no settlers nor improvements. -

Andrew P. Garrison
U.S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS:**LIST OF NAMES.**

A list of the names of the individuals employed by _____

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

, Chainman.

, Chainman.

, Moundman.

Factual affidavit made last 2nd Jy 70 R. G. W. Moundman.

, Axman.

, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

, Chainman.

, Chainman.

, Moundman.

, Moundman.

Factual affidavit made last 2nd Jy 70 R. G. W. Axman.

Axman.

, Flagman.

subscribed and sworn to before me this _____

day of _____, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from
United States Surveyor General for _____, bearing date of the
_____ day of _____, 189_____, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for _____, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of

Final affidavits see book L³ ff. 9 N.R. 107

...of the

.....meridian, in the of, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General forand in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor,

Subscribed by said _____, and sworn to before me
this _____ day of _____, 189



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

The foregoing field notes of the survey of the ~~the duplicate copies of~~ lines of
boundary at ~~West Range 18~~ ^{East of the} ~~base~~ ^{base} of the ~~base~~ ^{base}
~~Meridian~~ ^{Meridian} State.

executed by Cedric W. Hanson
under his contract No. Det., dated March 18, 1903, 189, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Edward J. Cederwall
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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M.

BOOK A-301

FIELD NOTES

OF THE SURVEY OF THE

South and East Boundaries

of

Township No. 14 North Range No. 17 West

of the... ~~Weld~~ Dakota River and Meridian,

State of Utah

AS SURVEYED BY

Auditor Johnson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189-

Survey commenced April 29, 1903, 189-

Survey completed April 30, 1903, 189-

—m

S Poly - high	2.60.00	✓	3.18.11	1.59.11
" " low				
E " high	2.25.12	✓	3.62.00	6.67
" " low				
Clay -				8.80 ✓

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann *Chairman*

R. J. Fairchild *Chairman*

J. F. Hoffmann *Manufactures*

Frank Hoffmann Jr. *Manufactures*

R. J. Fairchild *Academy*

Frank Hoffmann Jr. *Academy*

B. R. Lawrence *Flagman*

For Preliminary officials see back of S. J. S. M. P. W.

BOOK A-301

INDEX DIAGRAM.

Township , *Range*

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman

_____, Chainman

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



1.

South Boundary T 4 N. R. 17 W.

Chains Survey commenced April 29, 1903 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the vernier of the latitude and declination arcs. —

For further description of instrument and test of adjustment reference is hereby made to end of field notes of subdivision of T. 4 N. R. 18 W. "Book L." and being confident the instrument still remain in good adjustment I consider it unnecessary to repeat the test at this time. —

I begin at the cor. of Township 3 and 4 N. range 17 and 18 W. which I established April 22 1903

Thenew Draw

East bet. secs. 6 and 31. — Allowing for convergence, at. Set a limestone $17 \times 6 \times 6$ in. 12 in. in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face: dig pit $18 \times 18 \times 12$ in. E. and W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

Set a limestone $17 \times 7 \times 6$ in. 12 in. in the ground for cor. of secs. 5-6-31 and 32, marked with 1 notch on W. and 5 notches on E. edge: dig pit $18 \times 18 \times 12$ in. in each sec; $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base $2\frac{1}{2}$ ft. high N. of cor.

Land flat alkali desert

Soil sticky clay with crust of salts ~~4th rate~~

No vegetation. —

East bet. secs. 5 and 32

Set a limestone $16 \times 7 \times 6$ in. 12 in. in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face: dig pit $18 \times 18 \times 12$ in. E. and W. of stone 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. —

Leave Alkali desert; enter sloping bench and gravelly wash course north-easterly and south-westerly

Set a limestone $15 \times 7 \times 7$ in. 10 in. in the ground for cor. of sec. 4-5-32 and 33 marked with 2 notches on W. and 4 notches on E. edges: dig pit $18 \times 18 \times 12$ in. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Land flat alkali desert and sloping bench. —

	Soil sticky clay with salt crust, and gravelly wash + rate. No vegetation
	East bet. recs. 8 and 33- Over mountainous land Descending on broken gullied slope
40.00	Set a white limestone 18x8x5 in. 12 in. in the ground for cor. of recs. marked 14 on N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3½ ft. base 1½ ft. high N. of cor.
80.00	Set a dark eruptive stone 16x7x7 in. 11 in. in the ground for cor. of recs. 3-4-33 and 34 marked with 3 notches on E. and W. edges; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pit impracticable Sand mountainous broken slope Soil clay boulders and gravel + rate No timber Low thorny shrub undergrowth - Mountainous land 80.00 elev. -
	April 29: at 9450 m a m, I set a net off 41° 1' 33" N on the lat. and 14° 15' 30" W. on the decl. are and determine a meridian with the poles at the cor. of recs. 3-4-33 and 34 distance 0 mm
	East bet. recs. 3 and 34 Over mountainous land Descending on broken slope
24.20	Ravine 40 ft. deep drainage N. W.
40.00	Set a limestone 16x8x5 in. 11 in. in the ground for 1st. rec. cor. marked 14- on N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3½ ft. base 1½ ft. high N. of cor.
65.00	Top of mountain ridge bearing N. and S. connecting a rugged mountain on the north known locally as Silver Island, and a high rugged range on the south of evident volcanic origin; 230 ft. above desert
	Begin descent on broken slope
80.00	Set a dark porphyry stone 16x7x6 in. 11 in. in the ground for cor. of recs. 2-3-34 and 35 marked with 2 notches on E. and 4 notches on W. edge; dig pit 18x 18x12 in. in each rec. 5½ ft. dist. and raise a mound

South Boundary of T44N. R25E.

chain	of earth - 4 ft. base 2 ft. high N. of cor. - This cor. stands 120 ft. below ridge Land mountainous, broken slopes Soil clay gravelly wash and boulders + slate - No timber Thorny shrub undergrowth - Mountainous land 8000 ft. -
40.00	East bet. sec. 2 and 35 - Over mountainous land Descending gradually on broken slope Set a dark basaltic stone 17x8x6 inns 11 in. in the ground for 1/4 sec. cor. marked 1/4 sec. N. face; dig pit 18x18x12 inns. E. and W. of stone 3 ft. dist. and raised a mound of earth - 3 ft. ft. base 1/2 ft. high N. of cor.
60.00	Leave sloping surface and enter flat alkali desert Leave mountainous land course N.W. and S.E. 230 ft. before ridge
80.00	Set a dark basaltic stone 16x7x6 inns. 11 in. in the ground for cor. of sec. 1-2-35 and 36 marked with 1 notch on E. and 5 notches on W. edges; dig pit 18x 18x12 inns. in each sec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land mountainous slope and flat desert Soil gravelly wash, and clay with crevices of salts + slate No timber Low thorny shrub undergrowth - Mountainous land 6000 ft. -
	April 29: At this cor. I set off 1407' or a. 1/4 sec. are and at 1143' a. m. I set off observe the sun on the meridian the resulting lat is 41° 1' 43" N.
40.00	East bet. sec. 1 and 36 Set a basaltic rock. 16x7x5 inns. 11 in. in the ground for 1/4 sec. cor. marked 1/4 sec. N. face; dig pit 18x18x12 inns. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.00	Set a basaltic rock 16x7x7 inns. 11 in. in the ground for cor. of townships 3 and 4 N. range 16 and 17 E., marked 1/4 N. on N.C. R. 16 W. on S.E. & 3 1/4 W. on S.W. and 1 1/4 W. on N.W. faces with 6 notches on each edge; dig pit 24x24x12 inns. on each line N. &

4.
South Boundary of T 4 N R 17 W

Chain and W. 4 ft. and S of stone 8 ft. dist. and raise a mound of earth - 5 ft. base 25 ft. high S of cor.
 Land flat alkali desert
 Soil sticky clay with - crust of salts + the rate -
 No timber
 A few low scattering, stony, shrubs, underground

East Boundary of T 4 N R 17 W.

From the Tp. cor. last described I run

North - bet. secs. 31 and 36

40,000 Set a basaltic stone 16x8x5 in. 10 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.

80,000 Set a dark basaltic stone 16x7x6 in. 10 in. in the ground for cor. of secs. 25-30-31 and 36 marked with 1 notch on S. and 5 notches on N. edges; dig pit 18x18x12 in. each sec. 3 1/2 ft. dist. and raise a mound of earth - 4 ft. base 1 1/2 ft. high W. of cor.

Land flat alkali desert

Soil hard clay with - crust of salts + the rate -

No vegetation

North - bet. secs 25 and 30

40,000 Set a dark basaltic stone 16x8x4 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.

80,000 Set a dark basaltic stone 16x6x6 in. 11 in. in the ground for cor. of secs. 19-24-26 and 30 marked with 2 notches on S. and 4 notches on N. edges; dig pit 18x18x12 in. in each sec. 3 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.

Land flat alkali desert

Soil hard clay and salts + the rate -

No vegetation. —

North - bet. secs. 19 and 24

40,000 Set a basaltic stone 16x6x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth -

5
East Boundary of T. 4. M. 12. 17 M.

Chain 8,000	3½ ft. base 1½ ft. high W. of cor. Set a dark basaltic stone 17x6x6 in 11 in. in the ground for cor. of sec. 13-18-19 and 24 marked with 3 notches on N. and S. edges; dig pit 18x18x12 in. in each sec. 5½ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil hard clay $\frac{4}{4}$ in. nato No vegetation
North bet. sec. 13 and 18	
14,000	Set a dark basaltic stone 16x6x6 in 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N face; dig pit 18x18x12 in. N and S of stone 3 ft. dist. and raise a mound of earth - 3½ ft. base 1½ ft. high W. of cor. Center clay hillocks 2 to 3 ft. high 3 to 6 ft. diam., top covered with thorny shrub; bears E and W.
62,000	Foot of mountain bears E. and W.; begin ascent Easter mountainous land
79,500	Dry wash drains S. E.
80,000	Set a limestone 16x6x6 in. 11 in. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edge; raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits ineffectual This cor. stands 80 ft. above desert. - Land flat alkali desert and mountainous slope Soil clay, and wash gravel $\frac{4}{4}$ in. nato Greenwood and shadscale undergrowth on hillocks and mountain slope. - Mountainous land 18.00 elev. -

April 29, 1908

April 30: At 7:15 a.m. I set off 41° 5' N. on the lat. arc 14° 33' N. over the desert and determine a meridian with the solar at the cor. of secs. 7-12-13 and 18 Miner Creek
North bet. sec. 7 and 12
Over mountainous land
Ascending on rolling S. W. slope
Top of ridge, spurs, bears S. W. and S. E. 200 ft. above cor.
Descending abruptly to -

East Boundary of T.4 N. 13 W.

chain	
40.00	Set as limestone 18x11x5 in. 12 in in the ground for 1/4 acre. cor. marked 14 on N. face; raised as mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Thin cor. stand in bottom of gulch 90 ft. below ridge
40.25	Dry wash draining S. 70° E. in bottom of gulch; ascend
43.00	Ascent becomes steep on rocky slope
70.00	Top of mountain spur runs S.E. 900 ft. above desert Thence along steep rock slope facing E. W.
80.00	Set as limestone 18x10x6 in. 12 in in the ground for cor. of acc. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edge; raised as mound of stones 2 ft. base 1 1/2 ft. high N. of cor. - Pits impracticable Land mountainous, very broken Soil rocky and gravelly + th. slate No timber. - Low stony shrub undergrowth <u>Mountainous land 80.00 ch.</u>

	North - S. - E. - S. 1 and 6
	Over mountainous land
	Descending abruptly on rocky slope
40.00	Set as limestone 18x9x6 in. 12 in in the ground for 1/4 acre. cor. marked 14 on N. face; raised as mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
74.00	Base of rocky slope bears E and W. descending gradually on gravelly slope to
87.1.2	Intersect First Standard Parallel North - 8.50 ch. W. of the standard cor. of township 5 N. ranges 16 and 17 W. as herefore described. - Set as limestone 18x8x6 in. 12 in. in the ground for closing cor. of township 4 N. Range 16 and 17 W. marked C.C. 4 N. on S. 16 W on E and 17 W on W faces; with 6 grooves on S. E and W faces; dig pits 30x24x12 in. crossing on each line E and W. 4 ft. and S of stone 8 ft. dirt. and raise as mound of earth 5 ft. base 2 1/2 ft. high S. of cor. Thin cor. stands near edge of desert and 900 ft. below top of ridge. - Thin mountain rises abruptly to the desert on the E. - Land, mountainous, very rugged

East Boundary of T. 4 N. 12 W.

Character: Soil barren limestone rock and gravelly wash & rocks.
 No timber.
 Low thorny shrub undergrowth.
 Mountainous land 87,12 chs.
 For test of adjustments of instrument see the following
 book i.e. "Book N."

April 30, 1903

Boundaries of T. 4 N 12 17 W.

Latitude Departure and closing error

Line designated	True bearing	Distance chs	Latitude			Departure	
			N chs	S chs	E chs	W chs	m chs
1st St. Par. North	East	477.88				477.88	
East 13dy	South	484.12		487.12			
South " "	West.	478.11					478.11
West "	North	486.80	486.80				
Convergency					63		
Totals			486.80	487.12 486.80	478.51 478.11		478.11
Errors of Lat. and dep.					0.32	0.40	

General Description

This township is composed of barren alkali desert and nearly as barren, rugged, mountain, and has no water of any kind, nor vegetation, excepting low thorny shrub. The township to the south is taken up with a high very rugged mountain of volcanic origin, and the township to the east is all white desert.

Andrew P. Harron
U. S. Dep. Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

Talfinolaffidavits de lo st L' J. P. M. R. de W. _____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____, of the _____
meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

Talfinolaffidavits de lo st L' J. P. M. R. de W. _____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I,, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from.....
United States Surveyor General for....., bearing date of....., 180....., I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of.....

Final affidavits shall be filed with the Board of the
which are represented in

..... meridian, in the of which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said, and sworn to before me
this day of 189



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

OFFICE OF THE UNITED STATES GEOLOGICAL SURVEY
Salem, Oregon, March 31, 1900
The foregoing field notes of the survey of The South & East Boundary
Tinwood, Part 4, North Range, 17 West of the Pacific Coast
Boro & Precinct, Latah

executed by Richard W. Connor
under his contract No. 961, dated March 18, 1903, having
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

Edward Ruder
United States Surveyor C

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this .

United States Surveyor

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JAN 15 1904

N.

BOOK A-301

L.H.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 4 North Range 17 West

of the Salt Lake Basin and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18 1903, 189-

Survey commenced April 30. 1903, 189-

Survey completed May 7. 1903, 189

6-151

high - 28 74 98 ✓
 low - 31 29 68 ✓ 60" 66
 disp 44-07 ✓

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann - - Chairman

R J Friseth - - Chairman

J. F Hoffmann - - Treasurer

Frank Hoffmann Jr. - - Treasurer

R J Friseth - - - - - Assessor

Frank Hoffmann Jr. - - Assessor

B R Lawrence - - - Flagman

The preliminary officers shall be L. F. M. R. H.

BOOK A-301

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by striking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we measure; measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainmen

, Chainmen

Subscribed and sworn to before me this }
day of 189 }



We, and do solemnly swear that we will well and truly perform the duties of moundsmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundsmen

, Moundsmen

Subscribed and sworn to before me this }
day of 189 }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of roads and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axmen

, Axmen

Subscribed and sworn to before me this }
day of 189 }



I, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of F

Subscribed and sworn to before me this }
day of 189 }



Subdivision of T 4 N 12 1/2 W

Chains	<p>Survey commenced April 30, 1903 and executed with a W & L E Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.</p> <p>The instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the surveyor general for Utah April 6, 1903</p> <p>For list of adjustments of the instrument reference is hereby made to end of field notes of subdivision of T 4 N. 12 1/2 W. "Book L" under date of April 28, 1903 and being confident the adjustments are still correct I consider it unnecessary to repeat the test at the same time April 30, 10⁴⁰-0⁰⁰ am sun observed and no observation obtained</p> <p>I begin at the cor. of secs. 1-2-35 and 36 on S. bdy. of T 4 N. 12 1/2 W. set by me April 29. Thereon I run N. 0° 1' 24" bel. secs. 35 and 36</p>
4000	<p>Set a dark basaltic stone 17x7x5 in., 12 in. in the ground for 14 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N and S. of stone 3 ft. dist. and raise a mound of earth 3¹/₂ ft. base 1¹/₂ ft. high st. of cor.</p>
5000	<p>Set a dark basaltic stone 16x7x5 in., 11 in. in the ground for cor. of secs. 25-26-35 and 36 marked with 1 notch on S. and S. edges; dig pit 18x18x12 in. in each sec. 5¹/₂ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Lived flat alkali desert</p> <p>Soil hard clay and salts granular.</p> <p>No timber</p> <p>Scattering low thorny shrub undergrowth.</p>
4000	<p>East on a random line bet. sec. 26 and 36</p> <p>Set temp. 14 sec. cor.</p>
8000	<p>Intersect E. bdy. of Tp. at cor. of secs. 25-30-31 and 36 as heretofore described</p> <p>Thereon I run</p> <p>West on a true line bet. sec. 26 and 36</p>
4000	<p>Set a dark basaltic stone 17x8x5 in., 11 in. in the ground for 14 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E and W. of cor. 3 ft. dist. and raise a mound of earth 3¹/₂ ft.</p>

Subdivision of T. 4 N. R. 17 W.

	bare 1½ ft. high N. of cor.
8,000	Thru cor. of recs. 25-26-35 and 06 Land flat alkali desert soil hard clay and salts - 4 th ratio No vegetation April 30: at this cor. I set off 14° 35' 30" N. on the declination and at 11° 57' m a.m., I mt observe the sun on the meridian the resulting lat. is 41° 2' 35" N.
	N. 0° 1' W. bet. recs. 25 and 26
4,000	Set a dark basaltic stone 16×7×6 in. 11 in. in the ground for ¼ sec cor. marked ¼4 on N. face; dig pit 18×18×12 in. N and S of stone 3 ft. dirt. and raise a mound of earth 3½ ft. bare 1½ ft. high W. of cor.
8,000	Set a porphyry stone 16×9×6 in. 11 in. in the ground for cor. of recs. 23-24-25 and 26 marked with 2 notches on S and 1 notch on E. edge; dig pit 18×18×12 in. in each sec. 5½ ft. dirt. and raise a mound of earth 4 ft. bare 2 ft. high W. of cor. Land flat alkali desert with hillocks 3 ft. high 3 to 4 ft. diam. Soil clay and salts - 4 th ratio No timber. Buckwheat brush on hillocks
	East on a random line bet. recs. 24 and 25
4,000	Set limb ¼ sec. cor.
8,000	Intersect E. bdry. of Tp. at cor. of recs. 19-24-25 and 30 as heretofore described Then I run
	West on a true line bet. recs. 24 and 25
4,000	Set a dark basaltic stone 17×6×6 in. 11 in. in the ground for ¼ sec. cor. marked ¼4 on N. face; dig pit 18×18×12 in. E and W. of stone 3 ft. dirt. and raise a mound of earth 3½ ft. bare 1½ ft. high N. of cor.
8,000	Thru cor. of recs. 23-24-25 and 26 Land flat alkali desert with hillocks 2 to 3 ft. high soil hard clay and salts - 4 th ratio No timber Thorny shrub undergrowth on hillocks
	N. 0° 1' W. bet. recs. 23 and 24
4,000	Set a porphyry stone 17×6×6 in. 12 in. in the ground for ¼ sec cor. marked ¼4 on N. face; dig pit 18×18×12 in. N and S. of

Subdivision of T. 4 N. 12, 17, W.

Clayey	soil 3 ft. dirt, and raised as mound of earth 3 1/2 ft. base 15 ft. high N. of cor.
74,00	Leaves alkali desert and enter sloping bench course N. E. and S. W.
8,000	Set as flagstone stone 16 x 6 x 6 in., 10 in. in the ground for cor. of acc. 13-14-20 and at marked with 3 notches on S. and 1 notch on E. edge; dig hole 18 x 18 x 12 in. in each acc. 5 1/2 ft. dirt, and raise as mound of earth 4 ft. base 2 ft. high N. of cor.
	Land alkali desert, level with low hillocks and sloping bench Soil, hard clay and salt, and gravelly washes on bench, with some live timber
	Low thorny shrub undergrowth
	East on a narrow line bet. acc. 13 and 24
40,00	Set length. 1/4 sec. cor.
50,00	Set direct & long of T. P. at cor. of acc. 13-18-19 and 24
	Shallow draw
	West on a line bet. acc. 13 and 24
	Over flat alkali desert
25,00	Leave desert and begin ascent course towards S.
	Enter mountainous land
33,00	Top of ridge bears N. and S. 75 flat low desert; extends about 1/2 mile in each direction towards S.
	Begin descent
40,00	Set as dark basaltic stone 16 x 6 x 6 in.-11 in. in the ground for the sec. cor. marked 1/4 on N. face; dig hole 18 x 18 x 12 in. E. and W. of stone off dirt, and raise as mound of earth 3 1/2 ft. base 15 ft. high N. of cor.
43,00	Foot of slope; enter desert course towards S.
	Leave mountainous land
75,00	Leave desert, enter sloping bench course N. E. and S. W.
80,00	The cor. of acc. 13-14-23 and 24
	Land mountainous and level desert, covered with hillocks Soil dry clay and crust of salts and gravelly 45 mto. live timber
	Low thorny shrub undergrowth on last 1/2 miles mountainous land 9,200 ft.
	N 00° W. bet. acc. 13 and 14
	Over mountainous land
	Ascending gradually on broken slopes
97,50	Dry arable 8 ft. deep drainage S. E.

Subdivision of T. 4 N R 17 W

claims	
4,000	Set a porphyry stone 18x11x8 in., 12 in. in the ground for 1/4 acre cor. marked 1/4 on W. face; raised a mound of stones 2 ft. back 1 1/2 ft. high W. of cor. Pilot impracticable
8,000	Set a porphyry stone 16x11x9 in., 11 in. in the ground for cor. of accs. 11-12-13 and 14 marked with 1/4 notations 3 and 1 switch on E. edges; raised a mound of stones 2 ft. back 1 1/2 ft. high W. of cor. Pilot impracticable Thin cor. stands 150 ft. above cor. of accs. 13-14-23 and 24 Land mountainous, rolling slope Soil gravelly wash 4 in. thick No timber Low, thorny shrub undergrowth Mountainous land 8.00 ac.

April 30, 1903

	May 1: I run
	East on a random line bet. acc. 12 and 13
4,000	Set line, 1/4 acc. cor.
8,004	Intersect E. side of Th. 7 line S. of cor. of accs. 7-12-13 and 18 as herebefore described
	Then I run
	S 89° 5' W on a true line bet. acc 12 and 13
	Over mountainous land
0.20	Dry wash drains S.E. begin gradual ascent
16.00	Rocky spur runs S. 20° E. 80 ft. above cor.; descending gradually
29.80	Dry wash 8 ft. deep drains S.E.
33.03	Dry wash 10 ft. deep drains S.E.
4,002	Set a quartzite stone 18x14x12 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on W. face; raised a mound of stones 2 ft. back 1 1/2 ft. high W. of cor. Pilot impracticable
6,000	Dry wash in hollow 30 ft. deep drains S.E.
8,004	The cor. of accs. 11-12-13 and 14
	Land mountainous, rolling slope
	Soil gravelly wash and barren rock ledges alternate
	No timber
	Low, thorny shrub undergrowth
	Mountainous land 8.04 ac.
	KO° 1' W bet. accs. 11 and 12
	Over mountainous land

5.
Subdivision of T. 4 N. 18, 17 W.

Chains	Ascending on broken slope.
2675	Dry wash 10 ft. deep drains S.E.
3380	Dry wash 1.2 ft. deep drains S.E.
4000	Set on limestone 14x10x8 in 9 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; raise a mound of stones 2 ft. back 1 1/2 ft. high N. of cor. Pits impracticable
4200	Begin abrupt ascent. bears N. 60° W. and S. 60° E.
7060	Top of mountain bears N.W. and S.E. 450 ft. above sec. cor. Begin gradual descent on rocky slope facing N.E.
8000	Set on limestone 18x10x7 in. 12 in. in the ground for cor. of secs. 1-2-11 and 12 marked with 3' notches on S. and 1' notch on E. edges; raise a mound of stones 2 ft. back 1 1/2 ft. high N. of cor. Pits impracticable
	Land mountainous, broken slopes
	Soil rocky and gravelly 4th rate
	No timber. —
	Low thorny shrub undergrowth —
	Mountainous land 8000 chrs.
4000	N 89° 57' E on a random line bet. secs. 1 and 12
	Set limpf. 1/4 rec cor.
8008	Indirect E. bdy of Tp. at cor. of secs. 1-6-7 and 12 as heretofore described
	Flence Driv
	S. 89° 5' 7" W. on a true line bet. secs. 1 and 12
	Over mountainous land
	Ascending abruptly on rocky slope to —
620	Top of mountain ridge 90 ft. above cor. and about 1000 ft. above desert. —
	Begin abrupt descent
3720	Bottom of slope and hollow draining S. 20° E. 535 ft. below tip of ridge. — Ascending
4004	Set on limestone 18x6x6 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; raise a mound of stones 2 ft. back 1 1/2 ft. high N. of cor. Pits impracticable
4475	Top of spur running S.E. 60 ft. high. — Descending
5560	Bottom of hollow draining S.E. 50 ft. deep
	Begin ascent on rolling slope to —
7400	Top of spur running easterly; turns on N.E. slope and gradual ascent to —
8908	The cor. of secs. 1-2-11 and 12

Subdivision of T 4 N R 17 W

Chain	Thin cor. stands 2.75 ft. above hollow Land mountainous. Soil rocky and gravelly 4 th rule No timber Mountainous land 80.08 cha.
	N 0° 1' W bet. secs. 1 and 2. Over mountainous land Descending on broken slope. Set at limestone 15x8x8 in. ^{10 in. wide} for 1/4 section, marked 1/4 on W. face; raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Pit impracticable
40.00	Descending on N slope to Dry wash drains N.E.
74.00	Intersect First Standard Parallel North 8.67 cha W. of the standard cor. of secs. 35 and 36 as heretofore described
80.20	Set at limestone 18x8x6 in. 12 in. in the ground for closing cor. of secs. 1 and 2 marked; C.C. on S; with 1 groove on E and 5 grooves on N. faces; and raised a mound of stones 2 ft. base 1 1/2 ft. high S. of cor.
89.08	Thin cor. stands 600 ft. below cor. of secs. 1-2-11 and 12 Land mountainous Soil rocky and gravelly 4 th rule No timber. Low hornby shrub undergrowth. Mountainous land 87.08 cha.— May 1: at this cor. I set off 14° 5' 4" N. on the decl. arc and at 11 h 57 ^m a m. I set out observe the sun on the meridian the resulting lat. is 41° 7' N. —
	At the cor. of secs. 2-3-34 and 35 on S side of Tp. as heretofore described, I set off 41° 7' 43" N. on the lat. arc 14° 56' N on the decl. arc and at 245 ^m p.m., 1.20 P.T. determine a meridian with the solar time I now N 0° 2' W. bet. secs. 34 and 35
	Over mountainous land Descending gradually to Dry wash drains easterly
23.80	Begin abrupt ascent on rocky slope
24.50	At stationary ledge of basaltic lava 10x6x6 ft. above ground. I mark 1/4 on perpendicular west face near
40.00	

Subdivision of F.H.M.R. 17.W.

Change	the ground, and a crust for the exact cor point; raised a mound of about 2 ft. base 1½ ft. high W. of cor. Pth. impracticable.
40.00	Glin. cor. stands on top of a spur ridge running E. and W. 36.0 ft. above sea level.
56.00	Begins descent on steep rocky slope.
51.00	Bottom of hollow drains to 280 ft. deep. Ascend top of spur ridge runs E. and W. 250 ft. high.
80.00	Descending to set a baseline above 16x8x8 in. 11 in. in the ground for cor of sec. 26-27-34 and 35 marked with 1 switch on S. and 2 notches on E. edges; raised a mound of about 2 ft. base 1½ ft. high W. of cor. - Pth. impracticable.
40.00	Glin. cor. stands 80 ft. below ridge.
50.00	Land mountainous, very broken.
51.00	Soil rocky and gravelly alluvium.
52.00	No timber.
	Measurement land 80,000 ac.
40.00	East on a random line bet. sec. 26 and 35 - set line 14 sec. com.
50.00	Directed N. and S. line at cor. of sec. 26-27-34 and 35. Then along N. sec.
51.00	West on a line bet. sec. 26 and 35 -
52.00	Over flat barren desert.
36.50	Top of mountainous, north westerly and south easterly.
40.00	East on mountainous land.
40.00	Leave desert and begin ascend.
40.00	Set a white limestone 16x6x6 in. 11 in. in the ground for 14 sec. com marked 11 in. W. face, dig pit 18x18x12 in. E. and W. of about 3 ft. dirt and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
42.00	Ascent becomes abrupt on rocky slope.
45.00	Top of spur runs N.E. 140 ft. above desert.
48.00	Then along broken N. slope to
50.00	Ravine 20 ft. deep drains N. -
51.00	Ascending gradually to -
52.00	Glin. cor. of sec. 26-27-34 and 35 -
53.00	Land flat desert, and mountainous.
54.00	Soil soft clay, on desert; rocky and gravelly on mountain. No timber.

Subdivision of T. 14 N.R. 17 W.

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Claim	Low, living, shrub undergrowth Mountainous land 4.3, 5.0. Chs.
	N. 0° 2' W. bet. sec. 26 and 27 On mountainous land Descending gradually on rolling E. slope
4.000	Set. as dark basaltic stone 17x9x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 in. N. face; raised as mound of stones 2 ft. base 15 ft. high N. of cor. Pit impracticable
59.55	Dry wash drains E. 1.20 ft. below sec. cor. Ascending gradually to
8.000	Set. as porphyry stone 16x8x6 in. 11 in. in the ground for cor. of acc. 22-23-26 and 27 marked with 2 notches on S. and E. edges; raised as mound of stones 2 ft. base 1 1/2 ft. high N. of cor. - Pit impracticable Thin cor. stands 7.5 ft. above wash Land mountainous, rolling slope Soil gravelly and rocky 4 1/2 miles No timber Dunn, low, thorny shrub undergrowth Mountainous land 8.000. Chs.
	East on a random line bet. acc. 23 and 26
40.00	No trees, 1/4 sec. cor.
80.00	Intersect N. and S. line at cor. of acc. 23-24-25 and 26 There no trees
	West on a true line bet. acc. 23 and 26
	Over flat alkali desert
40.00	Set. as porphyry stone 16x8x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 in. N. face; dig. pit 18x18x12 in. C. and N. of stone 3 ft. deep and raised as mound of earth - 3 1/2 ft. base 15 ft. high N. of cor.
67.50	Foot of mountain bears northward and southward Leave desert and begin gradual ascent Over mountainous land
80.00	The cor. of acc. 22-23-26 and 27 Land flat alkali desert and mountainous slopes Soil clay and salt on desert; on slope, gravelly 4 1/2 miles No timber -
	Mountainous land 12.50 Chs.

50
61

9

Subdivision of T. 4 N. 13. 17 W.

chain	N 0° 2' W between 22 and 23
	Over mountainous land
	Ascending
23,00	Top of spur rising E. 150 ft. above cor. - ascend
38,00	Bottom of hollow drain E. 100 ft. deep. - Ascending to
40,00	Set of porphyry stones 17x9x6 in. 12 in. in the ground for 1/4 acre. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pitti impracticable
49,50	Top of rocky spur running E. 160 ft. above hollow
	Descending to
64,00	Bottom of gulch drain E. 140 ft. deep. - Ascend to
80,00	Set of limestone 18x10x10 in. 12 in. in the ground for cor. of acc. 14-15-22 and 23 marked with a roulette on S. end & another on E. edges; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pitti impracticable Thin cor. stands on S.E. slope 140 ft. above gulch
	Land mountainous
	Soil rocky and gravelly $\frac{4}{5}$ mile
	No timber.
	Mountainous land 80,00 Chs. -
14,00	East on a random line bet. recs. 14 and 23
14,00	soil light, 1/4 acre, cor.
14,00	Random N and S line 10 lbs. So. cor. of rec. 13-14-23 and 24
	Thin cor. 1/4 acre
	S. 89° 5' W on a true line bet. recs. 14 and 23
	Over mountainous land
	Ascending gradually on broken slope
14,00	Set of limestone 18x9x8 in. 12 in. in the ground for 1/4 acre, cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. - Pitti impracticable
14,00	Descent becomes abrupt, bears N.E. and S.W.
80,00	The cor. of acc. 14-15-22 and 23
80,00	Thin cor. stands 400 ft. above cor. of rec. 13-14-23 and 24
	Land mountainous
	Soil gravelly and rocky $\frac{4}{5}$ mile
	No timber
	Low Thorny shrub underground
	Mountain land 80,00 Chs.
	May 1, 1903

(1) May 2: At 7412 m. a.m. east Port off 41° 4' 19" S. or

Subdivision of T. H. N. R. 17 W.

Chains	The lat. aree $15^{\circ} 9' 30''$ N. over the decl. aree and determine with the colar. a meridian at the cor. of secs. 14-15-22 and 23 Hence true $N. 0^{\circ} 2' W$ bet. sec. 14 and 15.
15.80	Top of spur rises E. 150 ft. above cor. - There along steep E. slope; descending to
27.00	Bottom of hollow draining E. 125 ft. deep. Descending gradually along steep E. slope to
40.00	Set on limestone 18x8x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raise a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. - Pit impracticable. -
58.00	Set on limestone 18x8x6 in. 12 in. in the ground for cor. of secs. 10-11-14 and 15 marked with 4 notches on S. and 2 notches on E. edges; raise a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Pit impracticable Thin cor. stands 225 ft. above the cor. of secs. 14-15-22 and 23 Land mountainous very rugged. Soil rocky & rocky No timber. - Mountainous land \$0.00 per acre. -
40.00	At 89° 5' E on a random line bet. sec. 11 and 14 at 100 ft. sec. cor.
80.06	Intersect N. and S. line 90 ft. N. of cor. of secs. 11-12-13 and 14 Hence true West on a tree line bet. sec. 11 and 14 Over mountainous land Along S. slope and rolling surface
10.25	Dry wash 6 ft. deep drains S.
40.03	Set on limestone 18x8x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. - Pit impracticable
42.70	Dry wash 10 ft. deep drains S.E.
71.00	Begin abrupt ascent bears N. and S.
80.06	The cor. of secs. 10-11-14 and 15 Thin cor. stands 330 ft. above the cor. of secs. 11-12-13 and 14 Land mountainous Soil gravelly and rocky 4th rate No timber Low thorny shrub undergrowth Mountainous land \$0.06 per acre

Subdivision of T. 4 N. 12. 17 M.

11.

Chartres	N 0° 2' W. bet. secs. 10 and 11 Over mountainous land Ascending on steep broken slope
40,00	Set a limestone 18x9x6 in., 12 in. in the ground for: 1/4 sec. cor. marked 4400 N. face; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
61,50	Top of main ridge of Silver Island mountain, bears N 10° E. and S. 10° W. 1100 ft. above desert.
64,00	Descending to -
80,00	Set a limestone 18x10x6 in. ^{12 in. high and} for cor. of secs. 2-3-10 and 11 marked with 5 notches on S. and 2 notches on E. edges; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. - Land mountainous Soil rocky & flat No timber Mountainous land 8000 chrs.
	May 2: At this cor. I set off 15° 12' N on the decl. arc and at 114.570 m./m. - observe the sun on the meridian; the resulting lat. is 41° 6' N. -
	East on a random line bet. secs. 2 and 11.
40,00	Set limpf. 1/4 sec. cor.
80,04	Intersect N and S. line at cor. of secs. 1-2-11 and 12 Thence down
	West on a true line bet. secs. 2 and 11
	Over mountainous land
	Descending to -
44,60	Top of ridge bears N.W. and S.E. -
	Begin abrupt descent
40,02	Set a limestone 18x10x5 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. -
42,06	Bottom of gulch and dry wash, down 5. 450 ft. below ridge Descending abruptly
75,50	Top. mountain bears N. 10° E. and S. 10° W. 575 ft. above gulch
	Descending to -
80,04	The cor. of secs. 2-3-10 and 11 Land mountainous Soil rocky & flat No timber

Subdivision of T. 4 N.R. 17 M.

class	Moraine land 80,04 class.
	N. 0° 2' W. Sec. nos. 2 and 3
	Over mountainous land
22,00	Slope north west; begin descent
40,00	Set a phosphatic stone 16x12x8 in. 11 in. in the ground for 1/4 acre. cor. marked N. 0° W. faces raised or lowered of. stones 2 ft. base 1 1/2 ft. high 1 1/2 in. of cor. Pits impracticable
41,50	End of hollow drainage N. 160 ft. deep.-
44,00	Begin ascent h-
59,00	Top of spur ridge rises N. 150 ft. above hollow- Descending
71,00	End of hollow drainage N. 75° W. 175 ft. below ridge Thence along slope 90' above to
86,92	Intersect First Standard Parallel about - 870 class. Pt. of the standard cor. of acc. 34 and 35 as heretofore described Set a phosphatic stone 18x8x6 in. 12 in. in the ground for closing cor. of acc. 2 and 3 marked C.E. on S. face with 2 grooves on E. and 4 grooves on W. faces; raised or lowered of stones 2 ft. base 1 1/2 ft. high 3 in. of cor. Pits: impracticable.- Land mountainous Soil rocky & late No timber
	Moraine land 86,92. class.-
	May 2, 1903

	May 3: From the cor. of acc. 3-4-33 and 34 on S. edge of the T. as heretofore described Inc. area N. 0° 2' W. bet. acc. 33 and 34
	Over mountainous land
	Descending gradually over broken slope
40,00	Set a limestone 15x8x6 in. 10 in. in the ground for 1/4 acre. cor. marked 1/4 sec. N. face: dig pits 18x18x12 in. N. and S. of stone 3 ft. dist. and raise or lowered of earth - 2 ft. base 1 1/2 ft. high W. of cor.-
48,74	Dry wash 20 ft. deep drains N.W.; thence along st. slope through sand dunes and low gravel
80,00	Set a phosphatic stone 18x7x6 in. 12 in. in the ground for cor. of acc. 27-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edges; dig pits 18x18x12 in.

Baseline	are each acc. 3 ft. dist. apart raised a mound of earth 4 ft. base 2 ft. high. N. of cor.
	Thin cor. stands near the edge of the desert and 150 ft. below cor. of accs 3-4, 33 and 34.
	Land: mountainous rolling slope Soil: gravel and drift sand, and some clay, 4 ft. rate. No timber.
	Low thorny shrub undergrowth Mountainous land 8000 ft. -
4000	East. on a scoria line bet. accs. 27 and 34 Red limey. 44 acc. cor.
79,96	Intersection N. and S. line at cor. of accs 26-27-34 and 35 - Three S. runs.
	West. on a lime line bet. accs. 27 and 34.
	Over mountainous land
	Ascending on broken slope to
14,65	Top of mountain ridge bears N. and S. 100 ft. above cor.
16,00	Begin descent over broken slope
39,98	Set on granite stone 18x9x6 in. 12 in. in the ground for 44 ac. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1/2 ft. high. N. of cor. Pitti impracticable
79,96	The cor. of accs. 27-28-33 and 34 Thin cor. stands 275 ft. below top of ridge Land: mountainous, broken slopes Soil: gravelly and rocky, and drift sand 4 ft. rate. No timber Thorny shrub undergrowth Mountainous land 79,96 etc. -
	N. of 2 W. bet. accs. 27 and 28
	Over mountainous land
5,00	Begin gradual ascent
4000.	Set on dark basaltic stone 18x9x6 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1/2 ft. high. N. of cor. Pitti impracticable
#6,50	Descent becomes abrupt on rocky 0.1000 course. E. end on
68,00	Top of spur runs S. 20° W. 350 ft. above acc. cor.
	Three along or. or. slope and gradual descent to
69,00	Bottom of hollow 90 ft. deep. drainage. Cr.
	Ascending to

Subdivision of T. 4 N. 12. 17 M.

Chain

80.00

Set on granite stone 26x16x12 in. in a mound of
slates 3 ft. base 1 $\frac{1}{2}$ ft. high on rock bottom for cor. of rec.
21-22-27 and 28 marked with 2 notches on S and 3
notches on E. edges; raised as mound of slates 2 ft. base 1 $\frac{1}{2}$
ft. high N. of cor. Pits impracticable

Land mountainous

Soil low clay and sand, and rocky 4 $\frac{1}{2}$ rate

No timber

Mountainous land 80.00 chs.-

East on a random line bet. recs. 22 and 27

40.00

Set high 44 acc. cor.

80.10

Indirect N. and S. line tiller. S. of cor. of recs. 22-23-26 and 27

Thinner draw

S. 89° 3' 7" W. on a line bet. recs. 22 and 27

Over mountainous land

Ascending

25.00

Ascent becomes abrupt in rock cliff

40.05

Set a porphyry down 24x16x13 in. in a mound of slates 3 ft. base
1 $\frac{1}{2}$ ft. high on rock bottom for 44 rec. cor. marked 44 on N. faces
raise as mound of slates 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. -
Pits impracticable. -

Thin cor. stands in top of cliff & on spur running S.W.

43.50

Top of mountain bears N. and S. 52.5 ft. above rec. cor.

Descending to

64.80

Dry wash in bottom of hollow, distance S. to S.W. - Ascending

75.00

Top of spur running S. 60 ft. high. - Descending

80.10

Thin cor. of recs. 21-22-27 and 28

Land mountainous

Soil rocky and gravelly 4 $\frac{1}{2}$ rate

No timber

Mountainous land 80.10 chs.-

Mark 3: At thin cor I set off 15° 30' N. on the decl. arc and
at 11° 57' 0" a m, 1 m 9" - observe the sum of the meridians; the
resulting lat. is 41° 3' 27" N.

N. 0° 2' W. bet. recs. 21 and 22

Over mountainous land

Ascending

35.60

Top of ridge bears E and N. 400 ft. above cor. .

Subdivision of T. 4 N. R. 17 W.

Chain	Descending abruptly.
4,000	Set w granite stone 16x10x8 in. 11 in. in the ground for 14 sec. cor. marked 44 on N. face; raises a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
5,2,00	Top of slope bears E. and W. enters open gullies 300 ft. below top of ridge. - Thence over moraines
6,0,05	Dry wash drains W. 12 ft. deep
6,7,75	Dry wash drains W. 14 ft. deep
7,6,85	Dry wash drains W. 12 ft. deep.
8,0,00	Set w limestone 18x12x10 in. 12 in. in the ground for cor. of secs. 15-16-21 and 22 marked 4 N on N.E. and 17 W on S.E. faces with 3 notches on S. and E. edges; raises a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	Land mountainous
	Soil rocky and gravelly $\frac{4}{4}$ rate - no timber
	Mountainous land 80.00 Ch.
	 N. 89° 5' 7" E. on a random line bet. secs. 15 and 22
4,000	Set length. 14 sec. cor.
8,000	Direct N. and S. line 8 ft. N. of cor. of secs. 14-15-22 and 23 Thence down
	West on a line line bet. secs 15 and 22
	Over mountainous land
	Ascending to
9,75	Top of spur running S. 80 ft. above cor. - Descend abruptly
17,60	Bottom of gullies draining S.E. 175 ft. below spur
	Begin abrupt ascent
26,75	Top of Mountain crest bears N. and S. 260 ft. above gullies
	Descending steep slope to -
4,0,00	Set w limestone 17x11x9 in. 11 in. in the ground for 14 sec cor. marked 44 on N. face; raises a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
4,1,00	Enter head of open gullies course S. and S.E. and Begin gradual descent, on rolling slopes
8,0,00	The cor. of secs. 15-16-21 and 22
	This cor. stands 650 ft. below crest of mountain
	Land mountainous
	Soil rocky and gravelly $\frac{4}{4}$ rate -

Subdivision of T 4 N R 17 W.

Station	No timber Mountainous land 80,000 ac.
	May 3: At 3 ⁴ 30 ^m a.m., 1903 - I set off 41° 4' 19" N. on the lat. and 15° 32' 30" W. on the decl. and determine a meridian with the polar at the cor. of secs. 15-16-21 and 22 Thence down N. 0° 2' W. bet. secs. 15 and 16 Over mountainous land
1,50	Dry wash; drainage South westerly
6,00	Began abrupt ascent course E. and w.
17,12	Top of spur running N. 160 ft. above cor. Descending
22,00	Dry wash; drainage N. 60° W. in bottom of gulch 90 ft. below top Descending on S.W. slope
4,000	Set a limestone 18 x 14 x 12 in. 12 in. in the ground for 1/4 sec marked 1/4 cor. W. face; raise a mound of about 2 ft. base 1½ ft. high W. of cor. Pit impracticable Ascent becomes abrupt on S. slope
46,00	Top of spur running N. 230 ft. above gulch - Descending on S.E. slope
58,00	Descent becomes abrupt on N. E. slope
70,00	Bottom of narrow gulch drainage N. N. E. to N. 240 ft. below top Descending abruptly to -
77,60	Top of ridge bears. N.W. and S.E. 160 ft. high - Descending to Set a boulder above 18 x 11 x 8 in. 12 in. in the ground for cor. of secs. 9-10-15 and 16 marked with a postion on S. end 3 Matches on E. edges; raise a mound of about 2 ft. base 1½ ft. high 1½ ft. cor. Pit impracticable Land mountainous
8,000	Soil rocky and gravelly 4 ft. rate - No timber Mountainous land 80,000 ac. -
	May 3, 1903
	May 4: At 7 ⁴ 22 ^m a.m., 1903 - I set off 41° 57' N. on the lat. and 15° 45' W. on the decl. and determine a meridian with the polar at the cor. of secs. 9-10-15 and 16; thence down East on a random line bet. cor. 10 and 15 -
4,000	Set temp. 1/4 sec. cor. ;
79,96	Intersect N. and S. lines 5 1/2 in. N. of cor. of secs. 10-11-14 and 15 Thence down N. 89° 58' W. on a true line bet. secs. 10 and 15

Subdivision of T. H. N. 13, T. 9, W.

chain

Over mountainous land

Ascending abruptly to

Top of mountain crest bearing N. and S. 360 ft. above cor.

Begin abrupt descent

Set a limestone 18x8x6 in., 12 in. in the ground for 14

acres, marked 1/4 on N. face; raised a mound of stones

2 ft. high W. of cor. - Pits impracticable

Bottom of gulch and dry wash, drains N. W. 700 ft. below

crest of mountain - Ascending 30° N. E. slope to

The cor. of secs. 9-10-15 and 16

Flat cor. stands 325 ft. above gulch

Land mountainous

Soil rocky and gravelly 4 ft. thick

No timber

Mountainous land 79.96 acs. -

N. 0° 2' W. bid. secs. 9 and 10

Over mountainous land

Descending over broken slope to

Bottom of gulch drains N. 75° W. 370 ft. below cor.

Thence on gradual ascent to

Set a limestone 18x9x8 in., 12 in. in the ground for

1/4 acre cor. marked 1/4 on N. face; raised a mound of stones

2 ft. high 1/2 ft. high W. of cor. - Pits impracticable

Ascent becomes abrupt to

Top of spur, ridge runs N. 80° W. 300 ft. above gulch

Descending steep rocky slope

Foot of spur bears N. westerly and north-easterly; enter bottom of gulch 350 ft. below ridge

Set a horizontal stone 18x10x6 in., 12 in. in the

ground for cor. of secs. 3-4-9 and 10 marked with 5-

notches on S. and 3 notches on E. edges - raised a mound

of stones 2 ft. high 1/2 ft. high W. of cor. - Pits impracticable

Land mountainous

Soil rocky and gravelly 4 ft. thick

No timber

Low thorny shrub undergrowth

Mountainous land 80.00 acs. -

May 4: at this cor. I set off 15° 48' N. on the divide and

at 1145 ft. on a m. I first observed the sun on the

meridian; the resulting lat. is 41° 6' N.

Subdivision of T. 4 N. R. 17 W.

Clarion	S. 89° 5' 8" E. on a random line bet. sec. 3 and 10
40,00	Set back 1/4 ac. cor.
8,000	Intersection N. and S. line at cor. of secs. 2-3-10 and 11 Thence S. run N. 89° 5' 8" W. on a true line betwee. 3 and 10 Over mountainous land Descending on broken slope in head of gulch
40,00	Set a limestone 18x9x8 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; raise a mound of stones 2 ft. base 1/2 ft. high off cor. Pit impracticable
8,000	The cor. of secs. 3-4-7 and 10 This cor. stands 760 ft. below cor. of secs. 2-3-10 and 11 Land mountainous Soil rocky and gravelly 4 ft. to 6 ft. no timber Mountainous land 30,000 acres -
	N. 0° 2' W. bet. secs. 3 and 4 Over mountainous land
0.25	Boggy marsh drainage N. 60° W. Thence on gradual ascent in bottom of gulch;
21,00	Begins a right angle, bears E. and W.
35,00	Top of spur runs N. 21 1/2° W. high -
	Begins abrupt descent
38,70	Descent becomes gradual
40,00	Set a porphyry stone 18x9x6 in. 12 in. in the ground for 1/4 ac. cor. unmarked 1/4 on N. face; raise a mound of stones 2 ft. base 1/2 ft. high off cor. Pit impracticable
68,00	Foot of mountain bears N.E. and S.W. 300 ft. below spur Leave mountainous land Enter flat alkali desert
87,00	Indicates First Standard Parallel North - 8,780 ft. N. of the standard cor. of secs. 33 and 34 as heretofore described. -
	<i>64.0% 19.0%</i> Set a brachystone 18x9x5 in. 12 in. in the ground for closing cor. of secs. 3 and 4 marked C.C. on S. face with 3 grooves on E. and W. faces; dig pit 24x18x12 in Cross axis on each line 3 and on 3 ft. and .5 of cor. 7 ft. dust. and raise a mound of earth - 4 ft. base 2 ft. high

19
Subdivision of T. 4 M 12 T 4 W.

chain	3 of cor. Land mountainous and level soil rocky and gravelly; and alkali clay 4 ft nate No timber Low thorny shrub undergrowth over mountainous, but Mountainous land 6800 elev. -
	May 4, 1903
	May 5: At 7 th 10 th a.m. first I set off 4101' 40" N. from the lat. arc 16° 2' 30" N. on the decl. arc and determine a meridian with the colors at the cor. of sec. 4-5-32 and 33 on S. bdry. of Twp. as heretofore described. Then I run N. 0° 3' W. bet. sec. 32 and 33.
	Descending gradually on bench
3,00	Leave bench, enter flat alkali desert course N 65° E and S. 65° W.
4,000	Set a limestone 16×7×5 in. 11 in. in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pit 18×18×12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft base 1 1/2 ft. high N. of cor.
8,000	Set a limestone 17×7×5 in. 11 in. in the ground for cor. of sec. 28-29-32 and 33 marked with 1 notch on S. and 4 notches on E. edges; dig pit 18×18×12 in. in each sec 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.
	Land bench and alkali desert
	Soil clay and salts; soft and sticky 4 ft nate
	No vegetation
	East on a random line bet. sec. 28 and 33
4,000	Set. temp. 1/4 sec cor.
8,008	Intersect N. and S. line 12 elev N. of cor. of sec. 27-28-33 and 34.
	Then I run
	N. 89° 55' W on a true line bet. sec. 28 and 33
	Descending gradually on bench
3,00	Leave bench bears N. and S.; enter flat alkali desert
4,004	Set a dark basaltic stone 16×7×6 in. 11 in. in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pit 18×18×12 in. E. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. -

Subdivision of T. 4 N. R 17 W.

drain	
80.08	<p>The cor. of sec. 28-29-32 and 33</p> <p>Land flat alkali desert</p> <p>Soil sticky clay and salts - $\frac{4}{4}$ the salt</p> <p>No vegetation</p>
40.00	<p>S. 0° 3' W. bet. sec. 28 and 29</p> <p>Ovoo flat alkali desert</p> <p>Set a limestone 15 x 7 x 6 in. 10 in. in the ground for cor. of sec. 20, 21-28 and 29 marked with 2 notches on S. and 4 notches on E. edges</p> <p>Cor. marked $\frac{1}{4}$ on N. face; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dirt and raise a mound of earth - 3$\frac{1}{2}$ ft. base 15 ft. high N. of cor.</p>
80.00	<p>Set a limestone 15 x 7 x 6 in. 10 in. in the ground for cor. of sec. 20-21-28 and 29 marked with 2 notches on S. and 4 notches on E. edges</p> <p>dig pit 18 x 18 x 12 in. in each sec. 5$\frac{1}{2}$ ft. dirt. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.</p> <p>Land flat alkali desert</p> <p>Soil sticky clay and salts - $\frac{4}{4}$ the salt</p> <p>No vegetation</p>
40.00	<p>S. 89° 5' 5" E. on a random line bet. secs. 21 and 28</p> <p>Set temp. $\frac{1}{4}$ sec. cor.</p>
79.98	<p>Intersection N. and S. line 12 lbs S. of cor. of secs. 21-22-29 and 28</p> <p>Thence down</p> <p>West on a line bet. secs. 21 and 28</p> <p>Ovoo mountainous land</p> <p>Descending to</p>
5.00	Hollow drain 5-8 ft. below cor. - According rocky ridge
14.50	Top of spur ridge rises 5-10 ft. above hollow - Descending
34.00	slope becomes gradual and gravelly
39.00	Foot of mountain bears N. W. and S. E. 2-75 ft. below spur
	Leave mountainous land
	Enter flat alkali desert
39.99	Set a brickstone stone 18 x 8 x 6 ins 12 in. in the ground for $\frac{1}{4}$ sec. cor. - marked $\frac{1}{4}$ on N. face; dig pit 18 x 18 x 12 in. E. and N. of stone 3 ft. dirt. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
79.98	<p>The cor. of secs. 20-21-28 and 29</p> <p>Land mountainous and level</p> <p>Soil, rocky, and gravelly, and clay $\frac{4}{4}$ the salt</p> <p>No vegetation</p>

36.00
X 0
X 0

Subdivision of T. H. N. R. 1317 m.

chain	Mountainous land 39.00 ac.
	N. 0° 3' W. bld. sec. 20 and 21
40.00	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. N. and S. of cor. 14 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit; In S. pit drive a fine stake 2 ft. long 2 in sq. 12 in. in the ground marked.
	1/4 S. 20 on N. face and 21 and E. face
81.00	Set a basaltic stone 18x7x6 in. 12 in. in the ground for cor. of secs. 16-17-20 and 21 marked with 3 notches on S. and 4 notches on E. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert
	Soil clay and salts 4 ft. rate -
	No vegetation
	May 5: at this cor. I set off 16° 51' 30" W. on the declin. and at 11° 57' W. 0.0117 mi. to observe the sun on the meridian; the resulting lat. is 41° 4' 19" N.
	East on a random line bet. secs. 16 and 21
4.00	Set bldg. 1/4 sec. cor
79.96	Indicates N. and S. line 7 elev. N. of cor. of secs. 15-16-21 and 22 Three Grav.
	N. 89° 5' 7" W. on a true line bet. secs. 16 and 21
	Over mountainous land
	Descending gradually along bottom of gullies; broken surface
2.00	Dry wash from N.E. turns W.; 6 ft. deep
10.00	Leave wash, turns S. 70° W
39.98	Set a limestone 17x9x7 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impractical.
54.00	Dry wash drains N. 75° W.
72.50	Leave mountainous land, course N. and S.E. 230 ft. below sec. cor.
	Enter alkali desert
79.96	The cor. of secs. 16-17-20 and 21
	Land mountainous and level
	Soil gravelly wash, and clay with alkali salts - 4 ft. rate

-30-
11/11/46

Subdivision of T. 4 N.R. 17 W.

chain	No timber.- Mountainous land 7250 chrs.-
4,000	Set a brachyte stone 17x6x6 in. 12 in in the ground for 1/4 cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist and raise a mound of earth 3 1/2 ft. base 1/2 ft. high N. of cor.
8,000	Set a brachyte stone 17x6x6 in. 11 in in the ground for cor. of recs. 8-9-10 and 14 marked with 4 notches on S. and E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil silty clay and salt - 4 th rate No vegetation.-
8,894.547	On a narrow line bet. recs. 9 and 16
4,000	Set temp. 1/4 rec. cor.
8,000	Dashed N. and S. line 7 1/2 ft. S. of cor. of rec. 9-10-15 and 16 Then 1/2 run West on a thin line bet. recs. 9 and 16 Over mountainous land Ascending
8,500	Top of ridge bears N.W. and S.E. 100 ft. above cor. A volcanic peak about 50 ft. higher than this first bears at about 3 chs. 975 ft. above desert.-
4,000	Descending on rocky slide and S.W. slope
4,000	Set a limestone 16x10x6 in. 11 in in the ground for 1/4 rec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1/2 ft. high N. of cor. Pit impracticable
4,275	Dry wash drains N.W. in bottom of gash Descending gradually
7,500	Point of rocky spur runs N.W.
7,700	Leave mountainous land covered N. and S. 925 ft. below ridge.-
8,000	Enter flat alkali desert
8,000	The cor. of recs. 8-9-10 and 14 Land mountainous and level Soil rocky, gravelly and clay 4 th rate No timber.-
7,500	Mountainous land 77,000 chrs.-

23.

Subdivision of T. 4 N.R. 17 W.

Chain

N. 0° 3' W. bel. recs. 8 and 9
 Set a basaltic stone 17x7x6 in. 12 in. in the ground
 for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x
 12 ins. N. and S. of stone 3 ft. dist. and raise a mound
 of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
 Set a porphyry stone 17x6x6 in. 11 in. in the ground
 for cor. of recs. 4-5-8 and 9 marked with 3 notches
 on S. and 4 notches on E. edges; dig pit 18x18x12 in.
 in each rec. 5 1/2 ft. dist. and raise a mound of earth -
 4 ft. base 2 ft. high W. of cor.
 Land, flat, alkali desert
 Soil sticky clay and salts - 4th rate
 No vegetation

May 5, 1903

May 6: At 7⁴⁵ m. A.M., I set off 41° E. from the
 lat arc 16° 20' N. on the decl arc and determine a
 meridian with the solar at the cor. of recs. 4-5-8 and
 9 three times
 East on a random line bet. recs. 4 and 9
 4,000 Set 1/4 sec. cor.
 79,96 Intersect N. and S. line at cor. of recs. 3-4-9 and 10
 Three times
 West on a back line bet. recs. 4 and 9
 Over mountainous land
 2,50 Begin gradual ascent on side of N. slope
 10,00 Top of slope, then descending gradually on N. slope
 32,00 Point of spur running N.W. - Descending
 39,98 Set a porphyry stone 16x6x6 in. 11 in. in the ground
 for 1/4 sec. cor. marked 1/4 on N. face; raise a mound
 of stones 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable
 Foot of mountain bears N.E. and S. 27 1/2 ft. below sec. cor.
 Leaves mountainous land
 Enters flat alkali desert
 Thru cor. of recs. 4-5-8 and 9.
 Land mountainous and level
 Soil, rocky and gravelly, and alkali clay + salt
 No timber
 Low thorny shrub undergrowth on mountain part
 Mountainous land 59,00 ch.

59° 0' 0"

Subdivision of T-4 N.13.17 W.

chain	
4,000	N.0°3'W. bet. recs. 4 and 5 Set a porphyry stone 17x7x6 in. 11 in. in the ground for 44 rec. cor. marked 44 and W. face; dig pit 18x18x12 in. S. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
87,02	Indirect First Standard Parallel North 8,866 cm. N. of the standard cor. of secs. 32 and 33 as heretofore described. Set a dark basaltic stone 16x8x6 in. 11 in. in the ground for closing cor. of secs. 4 and 5 marked C.C. cor. S. face with 2 grooves on N. and 4 grooves on E. faces; dig pit 24x18x12 in. clockwise on each line E. and W. 3 ft. and S. of stone 7 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high S. of cor. Land flat alkali desert Soil sticky clay and salt - 4 des. - No vegetation -
4,000	From the cor. of secs. 5-6-31 and 32 on S. body of T.P. as heretofore described. I run N.0°4'W. bet. recs. 31 and 32
8,000	Set a limestone 15x9x5 in. 10 in. in the ground for 44 rec. cor. marked 44 and W. face; dig pit 18x18x12 in. N. and S. of cor. 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a limestone 16x7x6 in. 11 in. in the ground for cor. of recs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. - Land flat alkali desert Soil sticky clay and salt - 4 des. - No vegetation May 6: At this cor. I set off 16°22'30" N. on the decl. arc and at 11°5'7" a.m., but observe the sun on the meridian; the resulting lat. is 41°2'35" N.
4,000	East on a random line bet. recs. 29 and 32 at temp. 44 rec. cor.
8,000	Indirect N. and S. line at cor. of recs. 28-29-32 and 33 Then I run

25.
Subdivision of T. H. N. 19.17 W.

chain 4,000	West. on a base line bet. secs. 29 and 32. Deposit - a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig. pit: 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth: 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked. 1/4 S. 29 on N. face and 32 on S. face
80.00	The. cor. of secs. 29-30-31 and 32 Land. flat alkali desert Soil sticky clay and alkali salts 4 th rate No vegetation
4000	I sight the cor. of secs. 25-30-31 and 36 on S. bdy. of Th. and run West bet. secs. 30 and 31 Deposit - a quart of broken glass 12 in. in the ground for 1/4 sec. cor. dig. pit: 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth: 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked. 1/4 S. 30 on N. face and 31 on S. face
78.02	Intersect W. bdy. of Th. at cor. of secs. 25-30-31 and 36 as heretofore described Land. flat alkali desert Soil sticky clay and salts 4 th rate No vegetation
4000	N. 0° 4' W. bet. secs. 29 and 30 Set or limestone 16x8x5 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig. pit: 18x18x12 in. N and S. of stone 3 ft. dist. and raise a mound of earth: 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set or Set or limestone 17x6x6 in. 11 in. in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E. edges; dig. pit: 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth: 4 ft. base 2 ft. high W. of cor.
	Land flat alkali desert Soil soft sticky clay and salts 4 th rate No vegetation.

Subdivision of T. 4 N. R. 7 W.

Chain	Description
4,000	East on a random line bet. sec. 20 and 29 Oil limb. 1/4 sec. cor.
8,000	Intersect N. and S. line at cor. of sec. 20-21-28 and 29 Thick I. run
4,000	West on a true line bet. sec. 20 and 29 Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor. dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and same a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
8,000	In E. pit drove a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 20 on N. face 29 on S. face
8,000	The cor. of sec. 19-20-29 and 30 Land flat alkali desert Soil sticky clay and salts 4 ch. rate No vegetation
4,000	Right the cor. of sec. 19-24-25 and 30 on W. bdy. of Tp. and run S. 89° 58' W. bet. sec. 19 and 30
4,000	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor. dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and same a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
7,794	1/4 S. 19 on N. face and 30 on S. face Intersect W. bdy. of Tp. at cor. of sec. 19-24-25 and 30 as herefore described Land flat alkali desert Soil soft clay and salts 4 ch. rate No vegetation
4,000	N. 0° 4' W. bet. sec. 19 and 20 Set a limestone 16x9x7 in. 10 in. in the ground for 1/4 sec. cor. marked 1/4 in. W. face! dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and same a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
8,000	Set a limestone 15x10x6 in. 10 in. in the ground for cor. of sec. 17-18-19 and 20 marked with 3 nutches on S. and 5 nutches on E. edges. dig pit 18x18x12 in. in each

Subdivision of T. 4 N.R. 17 W.

claims	near 5½ ft. dist. and raised as mound of earth - 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert Soil soft, clay, and salt - 4 th rate No vegetation
	May 6, 1903
40.00	May 7: Draw East on a random line bet. recs. 17 and 20 Alt. temp. 14 rec. cor.
80.06	Intersect N. and S. line 5 1/2 ft. N. of cor. of recs. 16-17-20 and 21 Three Draw N 89° 5' 8" W on a line bet. recs. 17 and 20
40.03	Deposit - a quart of broken glass 12 in. in the ground for 14 rec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raised as mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 17 on N. face and 20 on S. face
80.06	Thru cor. of recs. 17-18-19 and 20 Land flat alkali desert Soil soft, clay and salt - 4 th rate No vegetation
40.00	Right in cor. of recs. 13-18-19 and 24 on W. bdy. of Tp. and recs. N 89° 5' 7" W. bet. recs. 18 and 19 Deposit - a quart of broken glass 12 in. in the ground for 14 rec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raised as mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 18 on N. face and 19 on S. face
77.82	Intersect w. bdy. of Tp. at cor. of recs. 13-18-19 and 24 as heretofore described Land flat alkali desert Soil soft, clay and salt - 4 th rate No vegetation. -
40.00	N. 0° 4' W. bet. recs. 17 and 18 Set as limestone 17x8x7 in. 11 in. in the ground for 14 rec. cor. marked 14 on N. face; dig pit 18x18x12 in. N.

Subdivision of T. 4 N. 13 17 W.

Chain	and S. of abu 3 ft. dirt. and raised a around of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. -
80.00	Set at limestone 18x8x3 in. 12 in. in the ground for cor. of accs. 7-8-17 and 18. marked with 4 notches on S. and 5 notches on E. edges; dig pit 18x18x12 in. in each acc. 5 1/2 ft. dist. and raised a around of earth 4 ft. base 2 ft. high N. of cor.
	Land flat alkali desert
	Soil soft clay and salts 4 ft. rate -
	No vegetation
	S 89° 58' E on a random line bet. accs. 8 and 17.
4,000	Set. limb. 1/4 sec. cor.
80.10	Intersection N. and S. line at cor. of accs. 8-9-16 and 17.
	Then west line
	N. 89° 58' W. on a true line bet. accs. 8 and 17.
4,005	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor. dig pit 18x18x12 in. E and W. of cor. 4 ft. dirt. and raised a around of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In E. pit. drive a few slate 2 ft. long 2 in. sq. 12 in. in the ground marked
	1/4 S. 8 on N. face and 17 on S. face
80.10	The cor. of accs. 7-8-17 and 18
	Land flat alkali desert
	Soil soft clay and salts 4 ft. rate -
	No vegetation
	Straight line cor. of accs. 7-12-13 and 18 on W. bdy. of Tp. and north N. 89° 58' W. bet. accs. 7 and 18
4,020	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E and W. of cor. 4 ft. dirt. and raised a around of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In E. pit. drive a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	1/4 S. 7 on N. face and 18 on S. face
77.74	Intersection W. bdy. of Tp. at cor. of accs. 7-12-13 and 18 as heretofore described -
	Land flat alkali desert
	Soil soft clay and salts 4 ft. rate -
	No vegetation
	May 7: at this cor. O set off 16° 38' 30" on the dead side

29
Subdivision of T. 4 N. R. 17 W.

Chain	and at 111457 m. a.m., I. M. T. observe the sun on the meridian; the resulting lat. is $41^{\circ} 5' 10''$ N.
4,000	N. $0^{\circ} 4'$ W. bet. recs. 7 and 8 Set a limestone 16x8x6 in. 11 in. in the ground for 44 sec. cor. marked 44 on surface; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor. Set a limestone 16x8x6 in. 11 in. in the ground for cor. of recs. 5-6-7 and 8 marked with 3' notches on S. and E. edges; dig pit 18x18x12 in. in each rec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft clay and salt - 4 th rate No vegetation
8,000	S. $89^{\circ} 58'$ E. cor. at random line bet. recs. 6 and 8 Set trough 12 in. cor. Battered side S. line 7 the S. of cor. of recs. 4-5-8 and 9 Grazed over Set a stone 16 in. a line marked recs. 6 and 8 Deposit a quart of broken glass 12 in. in the ground for 44 sec. cor. dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit In E. pit drove a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 16 S. 5° E. face and 8 to S. face The cor. of recs. 5-6-7 and 8 Land flat alkali desert Soil soft clay and salt - 4 th rate No vegetation.
8,012	May 7 at 2 ⁴ :30 ^m p.m., I. M. T. I set off $41^{\circ} 6'$ N. on the lat. arc $16^{\circ} 41' N.$ on the decl. arc and determine a meridian with the solar at the cor. of recs. 5-6-7 and 8 there; I sight the cor. of recs 1-6-7 and 12 on the body of T. and mark S. $89^{\circ} 59'$ W. bet. recs. 6 and 7
4,000	Deposit a quart of broken glass 12 in. in the ground for 44 sec. cor. dig pit 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit In E. pit drove a fine stake 2 ft. long 2 in. sq. 12 in. in the

Subdivision of T. 4 N. 12. 17 W.

chain 77,68	ground marked 1/4 S. & one N. face and 7 on S. face Intersection N. bdy. of Tp at cor. of recs. 1-6-7 and 12 as heretofore described.— Land flat alkali desert Soil soft clay and salts + ^{lime} salt - No vegetation
40,000	No 4 in bet. recs. 5 and 6 Set a limestone 16x11x6 ins 11 in. in the ground for 4th rec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
86,84	Intersection First Standard Parallel North - 9.06 C.R. N. of the Standard cor. of recs. 31 and 32 as heretofore described.— Set a limestone 16x14x6 ins 11 in. in the ground for closing cor. of recs. 5 and 6 marked c.c. on S. face with 1 groove on W. and 5 grooves on E. faces; dig pit 2.4 x 18x12 ins crosswise on each line E. and W. 3 ft. and S. of stones 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. Land flat alkali desert Soil soft clay and salts + ^{lime} salt - No vegetation

For list of adjustments of the instruments see the following book i.e. "Book O." —

May 7, 1903

General Description

This township is composed of barren, level alkali desert and nearly as barren, rugged mountain. It contains no surface water of any kind nor vegetation except a few thorny shrub scattering over the mountain part.

I did not find any indications of minerals of any kind on the mountain which is made up of nearly every kind of rock known including granite, several kinds of eruptive, and, the sedimentaries. It is locally known as "Silico Island". —

There are no settlers nor improvements. —

Andrew P. Johnson

U.S. Asst. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, marking the lines and corners described in the foregoing field notes of the survey of _____, showing the respective capacities in which they acted:

_____, Chainm.
_____, Chainm.
_____, Moundm.
Fairfusl offidants seal'd L. J. T. M. R. C. H. Moundm.
_____, Axman.
_____, Axman.
_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying those parts or portions of the _____

_____, of the
_____, meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainma.
_____, Chainma.
_____, Moundm.
Fairfusl offidants seal'd L. J. T. M. R. C. H. Moundm.
_____, Axman.
_____, Axman.
_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

The final official seal book Z, 177 MR 19
of the

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }

000292
0 SEAL 0
000000

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valdosta, Georgia, March 31, 1904
The foregoing field notes of the survey of the Philadelphia and Maine
of New Hampshire & N.H. Range of the State of the said
Ridge Road & Meridian, etc.

executed by _____, *Edward P. Hanson*
under his contract No. 961, dated *March 18, 1903*, 189_____, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward P. Hanson
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office

United States Surveyor General

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JAN 23 1

A.C.

4-679.

FIELD NOTES

OF THE SURVEY OF THE

East and North Boundaries

of

Township N^o 5 North Range N^o 18 West

of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Flanor, United States Deputy Surveyor

Under his Contract No. 261, dated March 18, 1903, 1

Survey commenced May 7, 1903, 12

Survey completed May 9, 1903, 18

6-151

E-Baby - high - 1-79-00 ✓
" " low - 4-04-24 ✓
N- " high - 2-12-00 ✓
" " low - 3-71-24 ✓

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann - - - Chairman

R P Froiseth - - - Chairman

J F Hoffmann - - - Vice-Chairman

Frank Hoffmann Jr. - - - Vice-Chairman

R J Froiseth - - - Recorder

Frank Hoffmann Jr. - - - Recorder

B R Lawrence - - - Flagman

For fulfilling my affidavits see book I G M Richter

BOOK A-301

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
 day of , 189 }



I, , do solemnly swear that I will well and
 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this }
 day of , 189 }



East Boundary of T 5 N R 18 W

Chain survey commenced May 7, 1903, and executed with a No. L E Bulley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the latitude and declination arcs. —

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah April 6, 1903. —

In order to test the adjustments of the instrument I go to the meridians established by me April 23, 1903 near the center of sec. 24 T. 5 N. R. 18 W. as described in "Book L," and at 5^h. 3^m p.m., first set off 41° 9' N. on the lat. arc. 16° 44' W. on the decl. arc and determine a meridian with the solar, which I find agrees within 1° of arc with the meridian determined by Polaris observation. —

May 7, 1903

May 8: at 7^h 16^m a.m., 1903. I set off 41° 9' N. on the lat. arc 16° 53' 30" W. on the decl. arc and determine a meridian with the solar which I find agrees within 40" of arc with the meridian established April 23, from Polaris observation; and I therefore conclude the adjustments are correct. —

The magnetic bearing of the meridian at 7^h 15^m a.m. is 17° 50' W.; the angle thus determined gives the mag. decl. 17° 50' E. —

I begin at the standard cor. of townships 5 N. ranges 17 and 18 W. established by me April 16, 1903, latitude 41° 6' 56" N. longitude 113° 51' 4" W. Thence I run:

North bet. secs. 31 and 36

Over level land

4,000 Set a limestone 16x7x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of above 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

8,000 Set a porphyry stone 16x8x6 in. 11 in. in the ground for cor. of secs. 25-30-31 and 36 marked with 1 notch on S. and 5 notches on N. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth

East Boundary of T. 5 N. R. 18 W.

	charies 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft. clay and salts - $\frac{4}{4}$ rate No vegetation
4000	North bel. aecs. 25 and 30 Over level land Set a red porphyry stone 16x8x7 in. 11 in. in the ground for 1/4 ac. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set a red porphyry stone 17x9x7 in. 11 in. in the ground for cor. of aecs. 19-24-25 and 30, marked with 2 notches on S and 4 notches on N. edges; dig pit: 18x18x12 in. in each aec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. — Land flat alkali desert Soil soft. clay and salts - $\frac{4}{4}$ rate No vegetation. —
4000	North bel. aecs. 19 and 24 Over level land Set a red porphyry stone 18x8x6 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set a porphyry stone 17x9x7 in. 11 in. in the ground for cor. of aecs. 13-18-19 and 24 marked with 3 notches on N. and S. edges; dig pit: 18x18x12 in. in each aec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land flat alkali desert Soil soft. clay and salts - $\frac{4}{4}$ rate No vegetation. —
13,00	North bel. aecs. 13 and 18 Over level land Leave level desert and enter mountain slope bears N.E. and S.W. Enter mountainous land, and ascend
40.00	Set a red porphyry stone 17x6x6 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on W. face; dig pit: 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of

DUKE

East Boundary of T. 5 N. R. 18 W.

chains	earth 35 ft. base 1½ ft. high. W. of cor.
4,300	Top of ridge spur bears easterly and westerly 275 ft. above desert. - Descending gradually in rolling slope to - Hollow drain. E 250 ft. below ridge -
7,000	Begin ascent
7,700	Set on limestone 17x8x6 in. 12 in. in the ground for cor. of recs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges; raised as mound of stones 2 ft. base 1½ ft. high W. of cor. Site impracticable
8,000	Land level desert and mountainous Soil alkali clay and crust of alkali, and rocky and gravelly No timber Low thorny shrub undergrowth - on mountainous part. Mountainous land 67.00 chs. -
4	North bet. recs. 7 and 12
	Over mountainous land
	Ascending broken slope
35,50	Top of spur ridge runs E 250 ft. above cor.
	Descending abruptly in rocky break
36,50	Foot of break 40 ft. deep, covers E. and S.
	Descending gradually
4,000	Set on limestone 18x8x6 in. 12 in. in the ground for 44 rec. cor. marked 1/4 on W. face; raised as mound of stones 2 ft. base 1½ ft. high W. of cor. Site impracticable
8,000	Set on limestone 17x7x6 in. 12 in. in the ground for cor. of recs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges; raised as mound of stones 2 ft. base 1½ ft. high W. of cor. Site impracticable This cor. stands 260 ft. below lip of spur Land mountainous Soil rocky and gravelly 4 grade No timber Mountainous land 80.00 chs.
May 8: The sky being overcast I could obtain no observation on the sun while on the meridian. -	
	North bet. recs. 1 and 6
	Over mountainous land
	Descending gradually, in thorny shrub undergrowth
12,00	Foot of slope bears N.W. and S.E. 50 ft. below cor.

East Boundary of T. 5 N. 12.18 W.

chain	Leave mountainous land Enter gravelly beach of old lake
38,000	Enter alkali desert, bears N.W. and S.E., barren of vegetation
40,000	Set a limestone 18x8x7 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig fill 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
83.24	Set a limestone 16x8x7 in. 11 in. in the ground for cor. of townships 5 and 6 N. ranges 17 and 18 W. marked 6 N. on N.E. 17 W. on S.E. 5 N. on S.W. and 18 W. on NW. faces; with 6 grooves on each edge; dig fill 24x24x12 in. on each line N. E. and W. 4 ft. and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2 1/2 ft. high S. of cor.
	Land mountainous slope and level desert Soil rocky, and gravelly, sandy and alkali clay - no water No timber Thorny shrub undergrowth - to edge of desert Mountainous land 12 chs. -

North Boundary of T. 5 N. 12.18 W.

From the cor last described Draw

West on a random line along the N. bdy. of Tps. 5 N.R. 18 W. setting temp. 1/4 sec. and rec corrs at intervals of 4000 chs. and at 483.24 chs. intersect the Guide Meridians 26 chs. S. 0° 33' E. of the cor of Tps. 5 and 6 N. R's 18 and 19 W. as heretofore described. -

The falling answers to a correction of 0° 02' or 4 1/2 chs. 5 per. mile counting from the N. E. cor. of the Tp.; therefore 0 chs. S. 87° 58' E. bet. recs. 6 and 31

Descending gradually over rolling foot hills

43.24	Set a porphyry stone 18x7x6 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig fill 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
83.24	Set a quartzite stone 16x9x5 in. 11 in. in the ground for cor. of recs 5-6-31 and 32 marked with 1 notch on N. and 5 notches on E. edges; dig fill 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.

North Boundary of T. 5 N. R. 18 W.

chain	This cor. stands 150 ft. below the top cor. Land sloping broken foothills and benches Soil gravelly & stony No timber Low thorny shrub undergrowth
	S. 89° 5' 8" E., bet. recs. 5 and 32 Over Mountainous land - Descending to -
9.00	Bottom of draw drain N. 75 ft. below cor.
13.00	Descending gradually to -
4.000	Set a limestone 15x7x6 in. 10 in. in the ground for 14 rec. cor. marked 1/4 over N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 35 ft. base 1 1/2 ft. high N. of cor.
	This cor. stands on North-end of low ridge or spur and 50 ft. above draw. - Descending
8.000	Set a trap stone 18x8x6 in. 12 in in the ground for cor. of recs. 4-5-32 and 33 marked with 4 notches over E. and 2 notches over W. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	This cor. stands 100 ft. below the 14 rec. cor.
	Land mountainous, broken slopes Soil gravelly with scattering boulders 4 th rate No timber Low thorny shrub undergrowth - Mountainous land 8.000 chs.
	S. 89° 5' 8" E. bet. recs. 4 and 33 Descending gradually over N. S. slope
4.000	Set a limestone 18x9x7 in. 12 in. in the ground for 14 rec. cor. marked 1/4 over N. face: dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 35 ft. base 1 1/2 ft. high N. of cor.
8.000	Set a limestone 16x8x5 in. 11 in in the ground for cor. of recs. 3-4-33 and 34 marked with 3 notches over E. and W. edges; dig pit 18x18x12 in. in each rec. 5 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. - Land sloping, broken, bench Soil gravelly moraine drift 4 th rate

North Boundary of T. 5 N.R. 18 W.

chains	No timber Low stony shrub undergrowth - and sagebrush May 8, 1903
4,00	May 9: Dune S. 89° 58' E. bet. secs. 3 and 34 Descending gradually on N.E. slope
5,00	Descending abruptly about 12 ft. convex N. and S. to
10,03	Threw over nearly level surface Old road bears N. and S.
4,000	Set a limestone 16x7x6 in. 11 in. in the ground for cor. of sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Set a limestone 18x7x6 in. 12 in. in the ground for cor. of secs. 2-3-34 and 35 marked with 2 notches on E. and 4 notches on W. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land rolling Soil gravelly 4th rate
	No timber Thorny shrub undergrowth -
10,00	S. 89° 58' E. bet. secs. 2 and 35
4,000	Enter dune undergrowth; bears N.E. and S.W. and Begin gradual ascent
77,00	Set a limestone 16x8x6 in. 11 in. in the ground for cor. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8,000	Foot of mountain bears N.E. and S.W. - Ascend
	Enter mountainous land. - Leaves dense undergrowth -
70° 10°	Set a quartzite stone 18x9x8 in. 12 in. in the ground for cor. of secs. 1-2-35 and 36 marked with 1 notch on E. and 3 - notches on W. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. -
	This cor. stands 2 2 5 ft. above cor. of secs. 2-3-34 and 35 Land sloping, rolling bench and mountainous Soil gravelly 4th rate

North Boundary of T. 5 N. R. 15 W.

chains	No timber Dense, rank thorny shrub undergrowth - Dense undergrowth and mountainous land 70.00 chs.
	5.89° 58' E bet. secs. 1 and 36
	Over mountainous land
	Ascending on rocky N.W. slope
7.00	Top spur at N end of mountain runs N. 90 ft. above cor.
	Begin descent on N.E. slope
22.00	Foot of mountain bears N.W. and S.E.; enter alkali desert
	Leave mountainous land
40.00	Set a quartzite stone 17x8x5 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 35 ft. base 15 ft. high N. of cor.
80.00	The cor. of Tps. 5 and 6 N R's 17 and 18 W. Land mountainous and level Soil rocky, gravelly and alkali clay with salt crust 40% ratio No timber - Mountainous land 22.00 chs. -
	May 9. 1903

Boundary of T. 5 N. R. 18 W.

Latitudes departure and closing error

Line Designated	True bearing	Distance chs.	Latitude		Departures	
			N	S	E	W
Fair St. Par. N.	East	480.00			480.00	
East Bdy.	North	483.24	483.24			
North ..	N. 89° 58' W	483.24	0.28			483.24
Guide Meridian	S 0° 33' E	79.99			79.99	0.77
" "	S. 0° 55' E.	80.36			80.35	1.28
" "	S. 1° 18' W	80.62			80.68	1.83
" "	S. 0° 19' E	80.90			80.90	0.45
" "	S 1° 38' E	80.38			80.35	2.17
" "	S 0° 46' E	81.06			81.05	1.08
Convergency	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	0.63
Total	- - - - -	483.52	483.24		483.75	485.70
Error of Lat.	- - - - -	0.28	0.28		0.06	- - - 0.06

General Description

For general description see the following book i.e. field notes

East and North Bdry. T.5 N. R. 18 W.

of subdivision of this Tract P.

Andrew P. Somers
C.E. & Surveyor

Volume

#

R0301

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chair
_____, Chair
F. J. Fairchild, see Book I, Pl. No. 67, Moun.
_____, Moun.
_____, Axma.
_____, Axma.
_____, Flay.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying those parts or portions of the _____

of the
meridian, _____, which are _____
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chain
_____, Chain
_____, Moun.
F. J. Fairchild, see Book I, Pl. No. 67, Moun.
_____, Axma.
_____, Axma.
_____, Flay.

Subscribed and sworn to before me this _____
day of _____, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for surveying and locating date of the day of , 18 I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

On file in office of its author J. H. W. W.

on the meridian, in the state of , which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and geopositioned in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the penalties of an Act of Congress approved August 4, 1841.

United States Deputy Surveyor.

Subscribed by said and sworn to before me
this, day of , A.D. 18

000000
000000
000000

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Valley City, N. D., March 1887
The foregoing field notes of the survey of the
.
.
.

executed by
under his contract No.
dated
being fully examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward G. Peabody
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described survey in
. has been correctly copied from the original notes on file in this office.

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FILED

JAN 23 1904

BOOK - A-301

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 5 North - Range No. 18 West

of the Salt Lake Base and Meridian,
State of Utah.

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor

Under his Contract No. 261, dated March 18, 1903, 12:

Survey commenced May 9, 1903, 18:

Survey completed May 16, 1903, 18:

0-161

High - 16-14-31 ✓

60-27-04

Low - 44-12-78 ✓

Closg - 11-05 ✓

NAMES AND DUTIES OF ASSISTANTS.

J. F. Hoffmann Chairman

R. J. Friseth "

J. F. Hoffmann Vice-Chairman

Frank Hoffmann, Jr. "

R. J. Friseth Assistant

Frank Hoffmann, Jr. "

B. R. Lawrence Flagman

Familiarity affidarts see book X. F. H. P. & W.

BOOK A-301

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by striking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainmen.

....., Chainmen.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundmen.

....., Moundmen.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axmen.

....., Axmen.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagmen.

Subscribed and sworn to before me this }
day of , 189 }



Subdivision of T 5 N. R 18 W.

Chains	<p>Survey commenced May 9, 1903 and executed with a Nels L.E. Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double vernier placed opposite to each other reading to single minutes of arc which is also the least count of the vernier of the lat. and decl. arcs. —</p> <p>The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 6, 1903.</p> <p>I return to the meridian established by me April 23. at my camp near the centre of sec. 24, T. 5 N. R. 18 W. as described in Book 6. and at $9^{\circ}58' \text{ min. } 10''$ am. M. T. set off $41^{\circ}9' \text{ N}$ on the lat. arc $17^{\circ}11' \text{ N}$. on the decl. arc. and test the adjustment of the solar, finding it indicate a meridian corresponding within $30'$ of arc with the meridian determined by Polaris observation, from which I conclude the adjustments are correct and further test at this time unnecessary. —</p>
	<p>I begin at the standard cor. of recs. 35 and 36 on S. bdy. of T 5 N. R 18 W as set by me April 16, 1903 and at 2^{nd} m. 1. m. 1. set off $41^{\circ}7' \text{ N}$ on the lat. arc $17^{\circ}13'30'' \text{ N}$. on the decl. arc determining a meridian with the solar the magnetic bearing of which is $N.17^{\circ}50'W$; the angle thus determined gives the mag. decl. $17^{\circ}50'E$.</p> <p>Then I run</p> <p>$N.0^{\circ}1'W$. bet. recs. 35 and 36</p> <p>Over level land</p>
4,000	<p>Deposit in a quarry of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pile $18 \times 18 \times 12$ in. N and S. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 15 ft. high over deposit. —</p> <p>In S. pile drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>1/4 S. 35 on N. face and 36 on E. face</p>
80,000	<p>Set a porphyry stone $18 \times 8 \times 5$ in. 12 in. in the ground for cor. of recs. 25-26, 35 and 36 marked with 1 notch on S. and E. edges; dig pile $18 \times 18 \times 12$ in. in each rec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. —</p> <p>Land flat alkali desert.</p>

Subdivision of T. 5 N. R. 18 W.

chain	soil. clay and salts - 4 th rate No vegetation
4000	East on a random line bet. secs. 25 and 36 Set temp. 14 acc. cor.
8000	Intersect E. bdy. of Tp. at cor. of secs. 25-30-31 and 36 as heretofore described. Hence I run.
	West on a true line bet. secs. 25 and 36
4000	Set a porphyry stone 18x9x4 in. 12 in. in the ground for 14 acc. cor. marked 14 on N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
8000	The cor. of secs. 25-26-35 and 36 Land, flat alkali desert. Soil. sticky clay and crust of salts - 4 th rate No vegetation
	W.O. 1 W bet. secs. 25 and 26 Over level land
4000	Set a limestone 18x9x4 in. 12 in. in the ground for 14 acc. cor. marked 14 on N. face; dig pit 18x18x12 in. N and S. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
8000	Set a red porphyry stone 17x7x6 in. 12 in. in the ground for cor. of secs. 23-24-25 and 26 marked with 2 notches on S. and 1 notch on E. edges; dig pit 18x18x12 in. in each one 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land, flat alkali desert. Soil soft. clay and salts - 4 th rate No vegetation.
	East on a random line bet. secs. 24 and 25 Set temp. 14 acc. cor.
4000	Intersect E. bdy. of Tp. at cor. of secs. 19-24-25 and 30 as heretofore described Hence I run
	West on a true line bet. secs. 24 and 25 Over level land
4000	Deposit of quartz of broken glass 12 in. in the ground

Subdivision of T. 5 N. 13.18 W.

Chain	for 1/4 sec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. - Set E. post drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked; 1/4 S. 2 1/2 in. N. face and 2 1/2 in. S. face The cor. of secs. 23-24-25 and 26
80.00	Land flat alkali desert Soil sticky clay and salt 4 th mat. No vegetation
35.00	80° 1' 48". lat. sec. 23 and 24
40.00	Over level land. Dry wash 2 ft. deep. 5 ft. wide drains S.E.
50.00	Set a porphyry stone 17x7x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 over N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
50.00	Set a porphyry stone 16x8x5 in. 11 in. in the ground for cor. of accs. 13-14-23 and 24 marked with 3 notches on S. and 1 notch on E. edges; dig pit 18x18x12 in. in each acc. 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land flat alkali desert Soil sticky clay and salt 4 th mat. No vegetation
	May 9, 1903
40.00	May 10: At 7 ^h 2 ^m A.M., 7.000 ft. I set off 141° 9' 32" S on the S. side of 17° 26' N. on the decl. arc and determine as meridian with the solar at the cor. of accs. 13-14- 23 and 24. Then we leave
40.00	East on a random line bet. accs. 13 and 24
80.00	Set comp. 1/4 sec. cor.
80.00	Intersect E. bdy. of Tp. 5 like N. of cor. of accs. 13-18-19 and 24 as heretofore described
	Then we leave
	N. 89° 58' W on a true line bet. accs. 13 and 24
	Over level alkali desert
15.00	Leave desert and begin ascent, corner N.E. and S.W.
	Enter mountainous land
27.70	Top of ridge bears. northward and southward 100 ft above desert. - Descending
40.04	Set a limestone 15x12x6 in. 10 in. in the ground for

Subdivision of T. 5 N 12 18 W.

Chorus	1/4 sec. cor. marked 1/4 on N. face; raise a mound of stones 2 ft. bars 1 1/2 ft. high N. of cor. Pile impracticable
65.00	Foot of mountain bears bears N.W. and S.E.; enter gently sloping bench Leave Mountainous land
69.18	Road to point of mountain, course N.W. and S.E.
74.25	Enter Alkali desert, course N.W. and S.E.
80.08	Thru cor. of aces. 13-14-23 and 24 Land mountainous, gently sloping and level Soil rocky, gravelly and alkali clay, 4 th rate No timber Thorny, shrub undergrowth, over all but desert land Mountainous land 50.00 chs. -

	N. 0° 1' W. bet. aces. 13 and 14
	Over flat alkali desert
10.00	Leave desert bears N.W. and S.E. and begin gradual ascent
23.95	Road to point of mountain bears N.W. and S.E.
24.00	Enter mountainous land course N.W. and S.E.
40.00	Set a quartzite stone 15 x 8 x 6 in. 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raise a mound of stones 2 ft. bars 1 1/2 ft. high W. of cor. Pile impracticable
41.50	Top of ridge rises N.W. 100 ft. above desert. - Descending to
51.00	Bottom of wash and hollow, drain S.W. 50 ft. deep. Ascending broken slope
74.00	Top of ridge rises N.E. and S.W. 150 ft. above hollow Descending to
79.00	Bottom of hollow and wash, drain S.W. 45 ft. below ridge
80.00	Set a red porphyry stone 18 x 7 x 6 in. 12 in. in the ground for cor. of aces. 11-12-13 and 14 marked with 4 notches on S. and 1 notch on E. edges; raise a mound of stones 2 ft. bars 1 1/2 ft. high W. of cor. Pile impracticable Land level, sloping, and mountainous Soil alkali clay, gravelly and rocky 4 th rate No timber
	Thorny, shrub undergrowth over all but desert land Mountainous land 50.00 chs.

38° 58' E. on a random line bet. aces. 12 and 13
Set fence. 1/4 sec. cor.

Subdivision of T. 5 N. R. 18 W.

Charton

80,00

Part of E. bdy. of Tp. 7 lies N. of cor. of secs. 7-12-13 and 14
as heretofore described

Three S. lines

1.89° S. S. W. orw as true line bet. secs. 12 and 13

Over mountainous land

Descending steep rocky slope to

29,60

Top of Mountain bears north-westerly and south-easterly 400
ft. above cor.

Descending in broken and large boulders

40,00

Set at limestone 16x8x6 in. 11 in. in the ground for 1/4
sec. cor. marked 1/4 on N. face; raise a mound of stones 2 ft.
base 1 1/2 ft. high N. of cor. Pilis impracticable

43,65

Leave rocky broken and boulders and descend gradually

50,00

Top of low spur ridge runs S. 75° W.; three on N.W. slope
~~With hollow basin S.W.~~
The cor. of secs. 11-12-13 and 14

57,60

Thin cor. stands 260 ft. below ridge

Land mountainous

Soil rocky and gravelly 4th rate -

No timber -

Mountainous land on P.O. 00 ch.

N. 0' W. bet. secs 11 and 12

Over mountainous land

Ascending broken slope

29,00

Rocky spur runs S. 30° W.

40,00

Set at limestone 17x12x6 in. 11 in. in the ground for 1/4
sec. cor. marked 1/4 on N. face; raise a mound of stones
2 ft. base 1 1/2 ft. high W. of cor. Pilis impracticable

66,60

Top of mountain bears N. and S. E.; sharp rocky ridge 530 ft.
above desert.

Descending in rocky broken to

80,00

Set at limestone 17x7x6 in. 12 in. in the ground for
cor. of secs. 1-2-11 and 12 marked with 5 notches on S. and
1 notch on E. edges; raise a mound of stones 2 ft. base
1 1/2 ft. high W. of cor.. Pilis impracticable

Thin cor. stands 100 ft. below top of mountain ridge

Land mountainous

Soil rocky and gravelly 4th rate. - No timber

Mountainous land 80,00 ch. -

May 10: at thin cor. I set off 17' 28" N. on the decl. arc and
at 11' 36" on a m. line where the sun on the meridian

Subdivision of T. 3 N. R. 18 W.

Chain	the resulting lat. is $41^{\circ} 11' 16''$ N.
40,00	S. $89^{\circ} 55'$ E. on a random line bet. secs. 1 and 12 Set temp. $\frac{1}{4}$ ac. cor.
80,10	Indirect E. side of Tp. 12 lies S. of cor. of secs. 1-6-7 and 12 as heretofore described Thence down West on a true line bet. secs. 1 and 12 Over mountainous land Ascending broken slope
29,90	Top of rocky spur, ridge bears northward and southward 280 ft. above cor... Descending to-
35,00	Enter head of hollow bearing N.; thence on gradual descent
40,05	Set a limestone $18 \times 10 \times 5$ in., 12 in. in the ground for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on N. face; raise a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Site impracticable
54,95	Dry wash drains N. 100 ft. below shore Begin ascent on rolling slope to-
50,10	The cor. of secs. 1-2-11 and 12 This cor. stands 300 ft. above the wash Land mountainous Soil rocky and gravelly with mali- No timber Mountainous land 80,10 etc.-
40,00	N $0^{\circ} 1'$ W. on a random line bet. secs. 1 and 2 Set temp. $\frac{1}{4}$ ac. cor.
83,16	Indirect N. side of Tp. at cor. of secs. 1-2-35 and 36 as heretofore described Thence down S. $0^{\circ} 1'$ E. on a true line bet. secs 1 and 2 Over mountainous land Ascending gradually on broken N.W. slope
43,14	Set a limestone $18 \times 12 \times 5$ in., 12 in. in the ground for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on N. face; raise a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Site impracticable
53,50	Top of low spur runs south-westerly
80,00	Spurs run N. E.; thence on N.E. slope to-
83,16	The cor. of secs. 1-2-11 and 12 This cor. stands 326 ft. above cor. of secs. 1-2-35 and 36

Subdivision of T. 5 N. R. 18 W.

Chain	<p>Land mountainous Soil rocky and gravelly 4th rate No timber. Mountainous land 83.16 acs. —</p>
	<p>Fence line standard cor. of secs. 34 and 35 on S. bdy of T.P. set by me April 16, 1903 I run. N. 0° 2' W. bet. secs. 34 and 35 — Over level land</p>
4,000	<p>Set a limestone 16x6x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p>
8,000	<p>Deposit a quart of broken glass 12 in. in the ground for cor. of secs. 26-27-34 and 35; dig pit 18x18x12 in. in each sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit.— In S.E. pit drive a pine stake 2 ft. long 2 in. square 12 in. in the ground marked</p>
	<p>T. 5 N. S. 26 on N.E. R. 18 W. S. 35 on S.E. S 34 on S.W. and S. 27 on N.W. faces; with 1 notch on S and 2 notches on E. edges.</p>
	<p>Land flat alkali desert Soil sticky clay and salts - 4th rate No vegetation</p>
	<p>East on a random line bet. secs. 26 and 35 —</p>
4,000	<p>Set fence 1/4 sec. cor.</p>
8,000	<p>Intersect N and S. line at cor. of secs. 25-26-35 and 36 Thence I run</p>
	<p>West on a true line bet. secs. 26 and 35 —</p>
	<p>Over level land</p>
4,000	<p>Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.—</p>
	<p>In E. pit. drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p>
	<p>1/4 S. 2 E. on N. face and 35 on S. face.</p>

Subdivisions of T. 5 N.R. 18 M.

Chain:

8,000

The cor. of secs. 26-27-34 and 35
Land flat alkali desert
Soil soft sticky clay and salt - 4 inches
No vegetation.

May 10, 1903

May 11: Draw

N. 0° 2' W. bet. accs. 26 and 27

Ovri flat surface

40,000

Diposito a quart of broken glass 12 in. in the ground for
1/4 sec. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist.
and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit
In diposito a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
With a firefly at stone 17x7x6 in. 12 in. in the ground for

8,000

cor. of accs. 22-23-26 and 27 marked with 2 rods then on S.
and E. edges; dig pit 18x18x12 in. in each acc. 5 1/2 ft. dist.
and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.
Land flat alkali desert

Soil sticky clay and salt - 4 inches

No vegetation

East end w random line bet. accs. 23 and 26

40,000

bet lines 1/4 sec. cor.

8,010

Indirect N. and S. line 9 1/2 in. N. of cor. of acc. 23-24-25 and 26

Thick Draw

N. 89° 56' W. on a thick line bet. accs. 23 and 26.

40,005

Diposito a quart of broken glass 12 in. in the ground for 1/4
sec. cor.; dig pit 18x18x12 in. End 0 1/2 of cor. 4 ft. dist.
and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit
In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the
ground marked

1/4 S. 2 3 on N. face and 2 6 and S. face

8,010

The cor. of acc. 22-23-26 and 27

Land flat alkali desert

Soil sticky clay and salt - 4 inches

No vegetation

N. 0° 2' W. bet. accs. 22 and 23

Ovri level land

40,000

Bet a white lava stone 17x8x6 in. 11 in. in the ground
for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12

Subdivision of T. 5 N. R. 12 W.

chain	irr. N. and S. of alcove 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
80.00	Set a tufa alcove 16x8x6 in. 11 in. in the ground for cor. of recs. 14-15-22 and 23 marked with 3 notches on S. and 2 notches on E. edges; dig pit ^{18x18x12 in.} in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land flat alkali desert Soil sticky clay and salts 4 th mat No vegetation.
40.00	S 89° 5' 6" E. on a random line bet. recs. 14 and 23 Set tufa alcove.
80.06	Indicated N. and S. line 10 ft. S. of cor. of recs. 13-14-23 and 24 Then 3 in.
	West on a true line bet. recs. 14 and 23 Over level land
27.86	Dry wash 2 ft. deep 8 ft. wide drains S.E.
40.03	Deposit of quartz of broken glass 12 in. in the ground for $\frac{1}{4}$ rec. cor.; dig pit ^{18x18x12 in.} E and W. of cor. 4 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high over deposit In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked $\frac{1}{4}$ S. 14 on N. face and 23 on S. face
80.06	The cor. of recs. 14-15-22 and 23 Land flat alkali desert Soil sticky clay and salts 4 th mat No vegetation
	N 0° 2' W. bet. recs. 14 and 15
	Over level land
20.00	Enter scattering low shrub sage brush
40.00	Set a tufa alcove 16x12x5 in. 11 in. in the ground for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N. face; dig pit ^{18x18x12 in.} N. and S. of alcove 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor. -
80.00	Set a tufa alcove 16x10x6 in. 11 in. in the ground for cor. of recs. 10-11-14 and 15 marked with 4 notches on S. and 2 notches on E. edges; dig pit ^{18x18x12 in.} in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Subdivision of T. 5 N. 12. 18^o W.

charms	<p>Land flat alkali desert Soil sticky clay and salts - 4th rate No timber Scattering, low shrub scale undergrowth - May 11: at this cor. Set off $170^{\circ} 44' N.$ on the decl. arc and at $11^{\circ} 56' W.$ a m. I. m. observed the sun on the meridian; the resulting lat. is $41^{\circ} 10' 24'' N.$</p>
4070	<p>East on a random line bet. sec. 11 and 14 Set line. $14^{\circ} 40' E.$ cor.</p>
79,98	<p>Intersection N and S. lines 7.66 m. S. of cor. of sec. 11-12-13 and 14 Hence true $5.89^{\circ} 5' 7'' W.$ on a true line bet. sec. 11 and 14 Over a mountainous land Along broken S. slope to -</p>
16,00	<p>Top of spur running S descending abruptly to -</p>
23,70	<p>Foot of mountain bears north-westerly and south-easterly 100 ft below cor. -</p>
	<p>Leave mountainous land, and descending gradually</p>
36,30	<p>Road to point of mountain bears S.E. and N.W.</p>
39,00	<p>Dry wash draining S.</p>
39,99	<p>Lepidolite at quartz of broken glass 12 in in the ground for 1/4 mi cor.; dig pit 18x18x12 in. E and 8.5 ft. cor 4 ft. dist. and raise a mound of earth 3$\frac{1}{2}$ ft. base 1$\frac{1}{2}$ ft. high over deposit In E. pit drove a redwood stake 2 ft. long 2 in. sq. 12 in. in the ground marked $14^{\circ} S.$ 11° or N. face and 14° on S. face)</p>
47,80	<p>Foot of slope entering flat alkali desert course N.W. and S.E.</p>
79,98	<p>On cor. of sec. 10-11-14 and 15 -</p>
	<p>Land mountainous, bench and flat alkali desert</p>
	<p>Soil rocky, gravelly and, sticky clay and salts - 4th rate - No timber</p>
	<p>Low thorny scrub undergrowth -</p>
	<p>Mountainous land 25,00 elev. -</p>
	<p>$25^{\circ} 0' 8''$ $14^{\circ} 0' 8''$</p>
	<p>No 2' with sec. 10 and 11</p>
	<p>Over level land, and desert</p>
11,50	<p>Leave desert bear south-easterly and north-westerly Begin gradual ascent</p>
11,75	<p>Road to point of mountain bears E. and N.W.</p>
40,00	<p>Set a quartzite stone 16x7x6 in. 11 in. in the ground</p>

Subdivision of T 5 d 12 1871.

Chain	for 1/4 sec. cor. marked 1/4 on N. face; dig full 18x18x12 in. N. and S. of stone 5 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
7,000	Foot of mountain bears north westerly and south easterly. Enter mountainous land and Begin abrupt ascent
8,000	Set a tufa stone 16x8x6 in. 11 in. in the ground for cor. of sec. 2-3-10 and 11 marked with 5 notches on S. and 2 notches on E. edges; dig full 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
8,500	Thin cor. alains 2 7/8 ft. above cor. of sec 10-11-14 and 15 Land flat desert, sloping and mountainous Soil, clay, and silt, and gravelly $\frac{1}{4}$ ft. rate No timber
	Thorny shrub undergrowth - Mountainous land 10,000 ft.
4,000	N. 89° 5' 7" E. on a random line bet. sec. 2 and 11 Set tufa 1/4 sec. cor.
8,008	Interval N. and S. line 19 lbs N. of cor. of sec. 1-2-11 and 12 Thence down N. 89° 5' 5" W. on a line line bet. sec. 2 and 11 Over mountainous land Ascending to
0.70	Top of spur runs N. and beginning of descent
11,25	Descent becomes abrupt to
21,50	Bottom of gulch drains 3 150 ft. deep.
	Descending abruptly
25,50	Top of spur runs S. 80 ft. above gulch
	Descending to
30,50	Thence over rolling slope and gradual descent
40,04	Set a limestone 18x7x6 in. 12 in. in the ground for 2d sec. cor. marked 1/4 on N. face; raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pipe impracticable
8,008	The cor. of sec. 2-3-10 and 11 Land mountainous Soil rocky and gravelly $\frac{1}{4}$ ft. rate No timber Low thorny shrub undergrowth - Mountainous land 8,008 ft. -

Subdivision of T. 5 N. R. 18 W.

chain	May 11: At 3 ⁴ 54 ^m point I set off 41° 11' 16" N. on the lat. arc 17° 47' N. on the decl. arc and determine a meridian with the solar at the corr. of secs. 2-3-10 and 11. Hence I run N. 0° 2' W. on a random line bet. sec. 2 and 3. At 100 ft. 1/4 rec. cor. Intersect N. bdy. of Th. 44 th sec. N. 89° 58' W. of corr. of secs. 2-3-34 and 35 as herebefore described Hence I run S 0° 17' W. on a true line bet. secs. 2 and 3 Over quickly sloping surface to Ascent becomes steeper and surface rough and rolling curve N.E. and S.W. Ends mountainous land, bears N. and S. Set on tufa stone 16 x 8 x 5 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. N. and S. of stone 3 ft. dirt and raised a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. Top of slope, and ridge, curve E. and W. 275 ft. above rec. cor. Begin abrupt descent curve E. and W. The corr. of secs. 2-3-10 and 11 This cor. stands 75 ft below top of ridge Land sloping and mountainous Soil gravelly 4 th rate No timber Low thorny shrub undergrowth - Mountainous land 45.03 chain - <i>(Signed) May 11. 1903</i>
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chain	May 12: At 7 ⁴ 20 ^m a.m., first I set off 41° 7' N. on the lat. arc 17° 58' N. on the decl. arc and determine a meridian with the solar at the standard corr. of secs. 33 and 34 or S. bdy. of Th. set by me April 16, 1903, three times from N. 0° 2' W. bet. secs. 33 and 34. Over level land Definite or quartz of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18 x 18 x 12 in. N. and S. of cor. 4 ft. dirt. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit In S. pit drove a redwood stake 2 ft. long 2 in. sq 12 in. in the ground marked
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Subdivisions of T. 5 W. R. 18 M.

	14 S. 33 on N. face and 34 on E. face
8.00	Set as limestone 16x8x6 in. 11 in. in the ground for cor. of recs. 27-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edges; dig pit 18x18x12 in. in each rec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil, soft, sticky clay and salt 4 th rate No vegetation
4.00	East on a random line bet. recs. 27 and 34 Set temp. 14 rec. cor.
79.94	Interior N and S. line at cor. of recs. 26, 24, 34 and 35— Thence S. run West on a true line bet. recs. 27 and 34 Over level land
39.97	Set on quartzite slates 15x8x6 in. 10 in. in the ground for 14 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. S. and N. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.94	Th. cor. of recs. 27-28-33 and 34 Land flat alkali desert Soil soft, sticky clay and salt 4 th rate No vegetation
4.00	2' w. bet. recs. 27 and 28 Over level land
4.00	Deposit: a quart of broken glass 12 in. in the ground for 14 rec. cor.; dig pit 18x18x12 in. N and S. of cor. 4 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit <small>1/3 ft. distance from slate 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 28 m. N. placed 2 ft. m. E. face</small> Set as tufa stones 17x12x5 in. 11 in. in the ground for cor. of recs. 21-22-27 and 28 marked with 2 notches on S. and 3 notches on E. edges; dig pit 18x18x12 in. in each rec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft, sticky clay and salt 4 th rate No vegetation
4.00	East on a random line bet. recs. 22 and 27 Set temp. 14 rec. cor.

Subdivision of T. 5 M. R. 18.9.2

chain	
8,000	Intersect N. and S. line at cor. of recs. 22-23-26 and 27 Thence S. run West on a true line bet. recs. 22 and 27 Over level land
4,000	Set a tufa stone 16x9x5 in. 11 in. in the ground for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N. face; dig pit $18 \times 18 \times 12$ in. E. and W. of stone 3 ft. dist. and raise a mound $\frac{1}{2}$ ft. high $\frac{1}{2}$ ft. high N. of cor.
8,000	The cor. of recs. 21-22-27 and 28 Land flat alkali desert Soil soft sticky clay and salts - $\frac{4}{4}$ in. rate No vegetation
	No 2' w. bet. recs. 21 and 22 Over level land
4,000	Set a tufa stone 17x12x5 in. 11 in. in the ground for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N. face; dig pit $18 \times 18 \times 12$ in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
8,000	Set a tufa stone 18x7x6 in. 12 in. in the ground for cor. of recs. 15-16-21 and 22 marked 5' N. on N.E. and 18' W. on S.E. faces; with 3 notches on S. and E. edges; dig pit $18 \times 18 \times 12$ in. in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil sticky clay and salts - $\frac{4}{4}$ in. rate No vegetation
	East on a random line bet. recs. 15 and 22
4,000	Set tufa $\frac{1}{4}$ rec. cor.
7,992	Intersect N. and S. line 5' E. of cor. of recs. 14-15-22 and 23 Thence S. run S. 89°58' W. on a true line bet. recs. 15 and 22
	Over level land
3,996	Diposite a quart of broken glass 12 in. in the ground for $\frac{1}{4}$ rec. cor.; dig pit $18 \times 18 \times 12$ in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high 0000 deposite In E. pit, drive a pine stake 2 ft. long 2 in. sq 12 in.

Subdivision of T. 5 N. R. 18 W.

chain	in the ground marked
79,92	14 8, 15 on N. face and 22 on S. face The cor. of secs. 15-16-21 and 22 Land flat alkali desert Soil sticky clay and salts - 4 th rate No vegetation -
	May 12: The sky being overcast during the noon hour I could obtain no observation on the sun while on the meridian. -
4,000	N 0° 2' W. bet. secs 15 and 16 Over level land Set as limestone lava rock 18x.8x6 in. 12 in. in the ground for 14 sec. cor. marked 14 on N. face; dig pit 18x18x12 in. N. and S. of above 3 ft. dist. and raise a mound of earth 3 ¹ / ₂ ft. base 1 ¹ / ₂ ft. high W. of cor.
45.00	Leave alkali desert and enter gently sloping bench covered with rank growths of thorny undergrowth; course N.E. and S.W. -
8,000	Set as lava stone 16x8x6 in. 11 in. in the ground for cor. of secs. 9-10-15 and 16 marked with 4 notches on S. and 3 notches on E. edges; dig pit 18x18x12 in. in each sec. 3 ¹ / ₂ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land flat desert, and gently sloping Soil clay and alkaline salts - 4 th rate - No timber Thorny shrub undergrowth -
4,000	N 89° 58' E on a random line bet. secs. 10 and 15 - Bet. lines 1/4 sec. cor.
79,96	Parallel N. and S. line 5' E of cor. of secs. 10-11-14 and 15 Thence S. run
28,50	West on a true line bet. secs. 10 and 15 - Over level land and desert Leave alkali desert and enter gently sloping bench covered with thorny shrub undergrowth - course N.E. and S.W.
39,98	Deposit of quartz of broken glass 12 in. in the ground for 14 sec. cor.; dig pit 18x18x12 in. E. and W. of cor. 7 ft. dist. and raise a mound of earth 3 ¹ / ₂ ft. base 1 ¹ / ₂ ft. high over deposit

Subdivisions of T. 5 N. R. 18 W.

chain	In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 14 S. 10 on N. face and 15 on S. face
49.90	Dry wash 3 ft. deep drains S.
79.96	The cor. of sec. 9-10-15 and 16. Land flat alkali desert, and gently sloping soil clay, and salt - 4 th rate No timber Thorny shrub undergrowth -
	N. 0° 2' W. bet. sec. 9 and 10 Ascending gradually
8.00	A small spring of fresh water bears in about 9 in.
40.00	Set a large stone 18x8x6 in. 12 in. in the ground for 14 cor. marked 14 cor. N. face; dig pits 18x18x12 in. Stand S. of stone 3 ft. dist. and raise a mound of earth 3 ¹ / ₂ ft. base 1 ¹ / ₂ ft. high N. of cor.
61.06	Old road bears N.E. and S.W.
80.00	Set a quartzite stone 18x8x5 in. 12 in. in the ground for cor. of sec. 3-4-9 and 10 marked with 5' mottles on S. and 3' mottles on E. edges; dig pits 18x18x12 in. in each cor. 5 ¹ / ₂ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land gently sloping Soil clay and alkaline salt - 4 th rate No timber - Thorny shrub undergrowth -
	Earth on a random line bet. sec. 3 and 10
40.96	Set large 14 cor. cor.
79.92	Intersection N. and S. line 10 th. S. of cor. of sec. 2-3-10 and 11. Thence 1 mile
	S. 89° 56' W. or a line bet. sec. 3 and 10
	Over mountainous land
	Descending gradually along broken S. slope to
30.00	Leave mountainous land. cor. sec. N.W. and S.E. 130 ft. below cor. - Thence over rolling bench
39.96	Delve in a quarry of broken glass 12 in. in the ground for 14 cor. cor.; dig pits 18x18x12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3 ¹ / ₂ ft. base 1 ¹ / ₂ ft. high over deposit -

Subdivision of T. 5 S. R. 18 E.

- charin
In E. pit drove a pine staker 2 ft. long 2 in. by 12 in. in the ground marked
145 3. on N face and 10 on surface.
Old road bears N and S.
Dry wash 3 ft. deep bearing S.
The cor. of recs. 3-4-9 and 10
Land sloping back and accumulation
soil gravelly and clay substrate
No timber.-
Thorny shrub undergrowth.
Mountain land 30.00 chm.-

May 12, 1903

- ~~30.00~~
~~19.97~~
40.00 May 13: I now - N. 0° 2' W. on a random line between and in
old line. 14 rec. cor.
83.08 Direct N. by E. of Tp. 28 E. sec. 89 58 W. gl. cor. of recs. 3-4-83 and 3-1
as heretofore described
Plane 0 mm
S 0° 10' W. on a true line bet. recs. 3 and 11
Descending gradually to
23.00 Earlier mountainous land bears E. and W.
37.00 Top of slope bears W. and S. E. 160 ft. above cor.
Center plateau
43.08 Deposits a quart of broken glass 12 in. in the ground
for the rec. cor.; dig pit 18 x 18 x 12 in. - lined S. of cor.
4 ft. dist. and raise a mound of earth 3 ft. high 12 ft.
high over topsoil.
In S. pit drove a redwood staker 2 ft. long 2 in. by 12
in. in the ground marked
145 8 on S. face and 3 on E. face
Begin almost descent curve E. and W.
82.50 Descent becomes gradual 175 ft. below top of ridge; curve
E. and W.
83.05 The cor. of recs. 3-4-9 and 10
Land rough, slope and accumulation
soil gravelly sand, substrate
No timber.
Low thorny shrub undergrowth.
Mountain land 60.00 chm.-

May 13: at 945 a.m. and cut off 457 mds. the lot are

Subdivision of T. 6 N. R. 18 W.

diagram	18°12'30" N. by true decl. are and determine a meridian at the standard cor. of secs. 32 and 33 on S. bdy. of T.P. set by me April 16, 1903. Surveyor Orman N. 0°3' W. bet. secs. 32 and 33
4,000	Deposit a quart of broken glass 12 in. in the ground for 1/4 ac. cor., dig pit 18x18x12 ins. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit. In S. pit drive a pine stake 2 ft. long 2 in. sq 12 in. in the ground marked 1/4 S. 32 on N. face and 33 on S. face
8,000	Set a limestone 18x8x6 in. 12 in. in the ground for cor. of sec. 28-29-32 and 33 marked with 1 notch on S. and 4 notches on E. edges; dig pit 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert Soil soft, sticky clay and salt & shale - No vegetation. -
	Cast out a random line bet. secs. 28 and 33
4,000	Set lamp. 1/4 ac. cor.
79,96	Intersect N. and S. line 7 lbs. S. of cor. of secs. 27-28-33 and 34 Surveyor Orman S. 89°57' W. on a line bet. sec. 28 and 33 Over level land
39,98	Deposit a quart of broken glass 12 in. in the ground for 1/4 ac. cor.; dig pit 18x18x12 ins. E. and W. of cor 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a redwood stake 2 ft. long 2 in. sq 12 in. in the ground marked 1/4 S. 28 on N. face and 33 on S. face
79,96	The cor. of secs 28-29-32 and 33 Land flat alkali desert Soil soft, clay and black mud & shale - No vegetation
	N 0°3' W. bet. sec. 28 and 29 Over level land
4,000	Set a limestone 16x8x6 in. 11 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

Subdivision of T. 6 N. 12. 18' W.

Chain

- 8,000 Set at limestone 16x7x6 in. 11 in. in the ground for cor. of recs. 20-21-28 and 29 marked with 2 notches on S. and 4 notches on E. edges; dig pit 18x18x12 in. in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.
- Land flat alkali desert
Soil soft clay and black mud 4 $\frac{1}{2}$ rate -
No vegetation -
- N. 8° 57' E. on a random line bet. recs. 21 and 28
- 4,000 Set limep. 1/4 rec. cor.
- 79,94 Intercept N. and S. line 3 ft. N. of cor. of recs. 21-22-27 and 28
Thence down
S 89° 58' W. on a true line bet. recs. 21 and 28
Over flat surface
- 3,997 Deposit of quartz of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high over deposit. -
In E pit drive a pine stake 2 ft. long 2 in. off 12 in. in the ground marked
1/4 S. 21 and N. face 28 over S. face
- 79,94 Th. cor. of recs. 20-21-28 and 29
Land flat alkali desert
Soil soft clay and black mud 4 $\frac{1}{2}$ rate -
No vegetation
- N 0° 3' W. bet. recs. 20 and 21
- Over level land
- 4,000 Set at quartzite stone 17x7x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
- 8,000 Set at quartzite stone 17x7x6 in. 12 in. in the ground for cor. of recs. 10-17-20 and 21 marked with 3 notches S. and 4 notches on E. edges; dig pit 18x18x12 in. in each rec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. -
Land flat alkali desert
Soil soft clay and mud 4 $\frac{1}{2}$ rate

Subdivision of T 5 N 18 W.

chain	No vegetation
	Mary 13: at this cor. Set off $18^{\circ}14'30''$ N. on the decl. arc and at $11^{\circ}56''$ on a m. t. mt. - observed the sun on the meridian; the resulting lat is $41^{\circ}09'32''$ N.
4000	$N.89^{\circ}58' E.$ on a random line bet. secs. 10 and 21 Set temp. 14 sec. cor.
79,90	Indirect N. and S. line 5' 11" N. of cor. of secs. 15-16-21 and 22 Through I run West on a true line bet. secs. 10 and 21 Over level land
39,95	Deposit of quartz of broken glass 12 in. in the ground for $\frac{1}{4}$ sec. cor.; dig pit: $18 \times 18 \times 12$ in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high over deposit. - In E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked $\frac{1}{4}$ S. 16 on N. face and 21 on S. face.
79,90	The cor. of secs. 16-17-20 and 21 Land flat alkali desert Soil soft clay and salts 4 th rate - No vegetation
	$N.0^{\circ}3' W.$ bet. secs. 16 and 17 Over level desert
15,00	Leave flat desert; enter rough gritty sloping land and undergrowth; course N. E. and S. W.
40,00	Set a quartzite stone $18 \times 6 \times 6$ in. 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pit: $18 \times 18 \times 12$ in. N. and S. of stone 3 ft. dist. and raise a mound of earth - $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. -
53,08	Old road bears N. E. and S. W.
80,00	Set a quartzite stone $18 \times 6 \times 3$ in. 12 in. in the ground for cor. of secs 8-9-16 and 17 marked with 4 rosettes on S. and E. edges; dig pit $18 \times 18 \times 12$ in. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. - Land level alkali desert and sloping bench Soil clay and salts 4 th rate - No timber - Dense growth of thorny shrub, undergrowth - on 65 lbs.

Subdivision of T. 5 N. 12. 18 W.

charies.

	East on N random line bet. recs. 9 and 16
4,000	No limb. 14 recs cov.
8,0,00	Intersect N. and S. line 10 ft. from N. of cor. of recs. 9-10-15 and 16 Thence S. run
	N. 89° 3' G. W. on a true line bet. recs. 9 and 16
	Through dense undergrowth -
30,9,0	Old road bears. N.E. and S.W.
40,0,0	Deposit: a quart of broken glass 12 in. in the ground for 1/4 recs cov.; dig pit 18x18x12 in. Exposed on. of cor. 4 ft. dist. and raised a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit -
	Sou E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	14 S. 9 on N. face and 16 on S. face
49,10	Dry wash drains S.E.
80,06	The cor. of recs. 8-9-16 and 17
	Land sloping and rolling
	Soil clay and alkaline salts - 4 th rate -
	No timber
	Dense growths of thorny shrub 2 to 6 ft. high
	Dense undergrowth - 80,06 cov. -

	N. 0° 3' W. bet. recs. 8 and 9
	Thorny undergrowth, increasing gradually
16,60	Undergrowth - becomes low and scattering; course E. and S.
21,58	Dry wash 3 ft. deep, drains S.E.
38,56	Dry wash 4 ft. deep, drains S.E.
40,00	All over quartzite stones 18x7x6 in. 12 in. in the ground for 1/4 rec. cov. marked 14 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raised a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80,00	Set over quartzite stones 17x8x5 in. 11 in. in the ground for cor. of recs. 4-5-8 and 9 marked with 5 notches on S. and 4 notches on E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land sloping, rolling
	Soil clay and alkaline salts - 4 th rate -
	No timber
	Thorny shrub undergrowth -

Subdivision of T. 5 N.R. 18 M.

diaries

May 13, 1903

	May 14: at 7 ^h 15 ^m a.m., I set off $41^{\circ} 11' 16''$ N. on the lat. acc. $18^{\circ} 27' 30''$ W. Now the decl. acc. and determine a meridian with the solar at the cor. of acc. 4-5-8 and 9. Hence I run
4,000	S. $8^{\circ} 9' 50''$ E. on a random line bet. sec. 4 and 9. Set limits 1/4 sec. cor.
8,000	Indirect N. and S. line 9 1/2 sec. S. of cor. of acc. 3-4-9 and 10. Hence I run
	West on a bare line bet. sec. 4 and 9
	Over rolling slope.
4,000	Set a quartzite stone $16 \times 7 \times 6$ in., 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit $18 \times 18 \times 12$ in. E. and W. of above 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. high $1\frac{1}{2}$ ft. high N. of cor.
8,000	The cor. of accs. 4-5-8 and 9
	Land sloping, rolling
	Soil clay and gravelly 3 rd rate -
	No timber
	N. $0^{\circ} 3'$ W. on a random line bet. sec. 4 and 5 -
4,000	Set limits 1/4 sec. cor.
83.22	Indirect N. bdy of T. 5. at cor. of accs. 4-5-32 and 33 as heretofore described
	Hence I run
	S. $0^{\circ} 3'$ E. on a bare line bet. sec. 4 and 5 -
	Ascending gradually
75.0	Enter mountain land course E. and W.
25.50	Top of slope bears south-easterly and north-westerly 150 ft. above cor. - Enter rolling plateau
43.22	Set a quartzite stone $18 \times 6 \times 6$ in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit $18 \times 18 \times 12$ in. N. and S. of above 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. high $1\frac{1}{2}$ ft. high W. of cor. -
6,000	Begin abrupt descent course E. and W.
75.00	Descent becomes gradual 175 ft. below plateau
	Leave mountain land course E. and W.
83.22	The cor. of accs. 4-5-8 and 9
	Land sloping and mountainous
	Soil gravelly wash 4 th rate -

S/N
6/5

Subdivision of T.5 N.R. 18 W.

Chainin	No timber. Mountainous land 67.50 acs. -
	From - the standard cor. of secs. 31 and 32 on S. bdy. of Tp. all by acre April 16, 1903 I run N. 0° 4' W. bet. sec. 31 and 32 Over level land
40.00	Deposit a quart of broken glass 12 in. in the ground for 1/4 acre cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth 35 ft. base 15 ft. high over deposit.
	In S. pit drive a pine stake 2 ft. long 2 in. sq 12 in. in the ground marked 1/4 S. 31 or N. face 32 on E. face
58.00	Earth clear salt water 2 to 4 in. deep, bases N.E. and S.W.
80.00	Deposit a quart of broken glass 12 in. in the ground for cor. of sec. 29-30-31 and 32; dig pit ^{18x18x12 in.} in each sec. 4 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high over deposit In S. E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	T.5 N. S. 29 or N. E.
	R 18 W. 5 32 or S. E.
	S 31 or S. W. and
	S. 30 or N. W. faces with 1 notch on S. and 3 notches on E. edge Land flat alkali desert, in part covered with water Soil soft clay and black mud 4 ft. note
	No vegetation Water dries up in later part of each summer. -
	East on a random line bet. sec. 29 and 32
40.00	No timber. 1/4 acre cor.
80.00	Indirect N. and S. line 5 lbs. N. of cor. of sec. 28-29-32 and 33 Thence I run
	N. 89° 5' 8" W. or a true line bet. sec. 29 and 32
40.00	Deposit a quart of broken glass 12 in. in the ground for 1/4 acre cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 35 ft. base 15 ft. high over deposit.
	In E. pit drive a redwood stake 2 ft. long 2 in. sq 12 in. in the ground marked 1/4 S. 29 or N. face and 32 or S. face

Subdivision of T.S. N.R. 18^W.

Chain	
6,00	Enter clear salt water 2 to 4 in. deep corner N.E. and S.W.
8,00	The cor. of sec. 29-30-31 and 32 Land flat alkali desert periodically covered in part with water Soil sticky clay and black ooze 4 th rate - No vegetation.
	 Knowing from survey of Guide Meridian I can not close on cor. of secs. 25-30-31 and 36 within limit I run West bet. secs. 30 and 31 Level land, water 2 to 4 in. deep
22,00	Leave water bears N.E. and S.W.
40,00	Set a granite stone 16x8x6 in. 11 in. in the ground for ^{marked 1/4 on N. face} 1/4 sec. cor. & dig pit 18x18x12 in. E. and W. of stone 3 ft. dirt. and raise a mound of stones 3 ¹ / ₂ ft. base 1 ¹ / ₂ ft. height 1 ¹ / ₂ of cor. -
58,00	Leave alkali desert and enter salt grass, bears N.C. and S.W.
60,00	Enter dense undergrowth covers N.E. and S.W.
80,98	Indirect N. bdy of Tp. 1,06 chs S. 0°46' E. of cor. of secs. 25-30 31 and 36 as heretofore described Set a granite stone 18x8x6 in. 12 in. in the ground for closing cor. of secs. 30 and 31 marked C.C. on E. face with 1 groove on S. and 5 grooves on N. faces; raise a mound of stones 2 ft. base 1 ¹ / ₂ ft. height E. of cor. - Pits immediately and remove all markings from old cor. of secs. 25-30-31 and 36 referring to secs. 30 and 31
	 Land flat alkali desert, periodically covered in part with water and level rough surface. -
	Soil clay and alkaline salts - 4 th rate - No timber
20,98 chs. -	Leave stony shrub undergrowth 2 to 6 ft. high on last
	 May 14: At this cor. I set off 18° 29' 30" N. on the deck are and at 11 ⁴⁵ m. a.m. first observe the sun on the meridian; the resulting lat is 41° 8' N. -
	 N 0°4' W bet. secs. 29 and 30
40,00	Over level land, covered with salt water 2 to 4 in. deep Set a limestone 17x8x6 in. 11 in. in the ground for the sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in.

Subdivision of T. 5 N.R. 18 W.

Station	N. and S. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
4,200	Leave water bears N.E. and S.W.
8,000	Set a quartzite stone 17x7x6 in. 12 in. in the ground for cor. of sec. 19-20-29 and 30 marked with 2 mallets on S. and 5 mallets on E edges; dig pit 18x18x12 in. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land flat alkali desert periodically covered in part with water Soil sticky clay and black ooze 4 th rate No vegetation.
4,000	I sight the cor. of sec. 20-21-28 and 29 and run East on a random line bet. sec. 20 and 29
8,000	Set temp. 1/4 sec. cor. Intersect N. and S. line at cor. of sec. 20-21-28 and 29 Then I run West on a line bet. sec. 20 and 29 Over level land
11,50	Enter clear salt water 2 to 3 in. deep. course N. and S.
3,900	Leave water bears N.E. and S.W.
4,000	Set a limestone 18x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of above 3 ft. dist. and raise a mound of earth - 3½ ft. base 1½ high N. of cor. -
8,000	The cor. of sec. 19-20-29 and 30 Land flat alkali desert periodically covered in part with water Soil sticky clay and black ooze 4 th rate No vegetation
0.25	Knowing from resurvey of Guide Meridian, I can not close. on cor. of sec. 19-24-25 and 30 within limit, I run West bet. sec. 19 and 30 Over level land, rough broken surface, and alkali desert Leave desert course N.E and S.W. and Enter dense undergrowth -
12,42	Road leading to edge of desert bears N. and S.
4,000	Set a quartzite stone 16x8x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raise a mound of above 2 ft. base 1½ ft. high N. of cor. Pit impracticable

Subdivision of T. 5 N. 12 S. 18 M.

chain 2,58,08	Begin gradual ascent, corners N.E. and S.W.
61,82	Old road bears N.E. and S.W.
70,53	Old Pilot Peak & Emigrant Road bears N.W. and S.E.
83,08	Intersect Guido meridian 1,300 ft. N. 1° 33' E. of cor. of sec. 19-24-25 and 30 as heretofore described
	Set a quartzite stone 18x6x6 in. 12 in. in the ground for closing cor. of secs. 19 and 30 marked C.C. on E. face with 2 grooves on S. and 4 grooves on N. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable -
	And remove all markings from old cor. of secs. 19-24-25 and 30 referring to secs. 19 and 30
	Land rough, broken; gently sloping on east <u>05,00</u> ft. Soil clay, gravel and boulders 4th rate
	No timber
	Dense thorny shrub undergrowth 2 to 5 ft. high
	Dense undergrowth 82,83 ft.
0,40	N 0° 4' W bet. acc. 19 and 20
	Over flat alkali desert lo-
	Leave desert; enter rough bottom land course N.E. and S.W.
	Enter dense undergrowth -
38,00	A small spring of fresh water bears W about 15 ft.
40,00	Set a quartzite stone 18x6x6 in. 12 in. in the ground for 4th cor. cor. marked 1/4 on W. face; dig pit 18x18 x12 in., N. and S. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
50,76	Old road bears S.W. and N. E.
60,00	Begin gradual ^{ascent} corner N.E. and S.W.
80,00	Set a quartzite stone 18x6x6 in. 12 in. in the ground for cor. of acc. 17-18-19 and 20 marked with 3 notches on S. and 5 notches on E. edges; raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land rough bottom and gradual slope
	Soil clay, gravel and boulders with alkaline salts 4th rate
	No timber
	Dense thorny shrub underbrush 2 to 5 ft. high
	Dense undergrowth 79,00 ft. -
	May 14, 1900

Subdivision of T. 5 N. R. 12 W.

chain	May 15: At 4 ⁴ /10 m. a.m., I set off 41° 9' 30" N. on the lat. arc 18° 41' 30" N. over the decl. arc and determine a meridian with the solar at the cor. of sec. 17-18-19 and 20 Three Trms
40,00	East on a random line bet. sec. 17 and 20 Set limb 1/4 sec. cor
80,04	Intersect N. and S. line 7 lbs. S. of cor. of sec. 16-17-20 and 21 Three Trms
	58° 5' 7" W. over a line line bet. sec. 17 and 20
	Over flat alkali desert -
27,50	Leave desert, bears N.E. and S.W. and Enter dense undergrowth -
40,02	Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit
	Inv. E. pit drove a fine stake 2 ft. long 2 in. sq. 12 in in the ground marked
	1/4 S. 17 over N. face and 20 on S. face
54,56	Old road bears N.E. and S.W. and beginning of gradual slope bear. N.E. and S.W.
80,04	The cor. of sec. 17-18-19 and 20 Land level desert and bottom, and gradual slope, Soil, clay, gravel, and boulders with alkaline salts, & saline No timber Dense thorny shrub undergrowth - 2 to 5 ft. high Dense undergrowth 52,54 chs. -
S. 1/2 S. 17	
	Starting from the survey of Guide meridian that I can not close on the cor. of sec. 13-18-19 and 24 within limits Trms
	West bet. sec. 18 and 19
	Through dense undergrowth
	Ascending gradually over rough surface
40,00	Set a quartzite stone 18x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 over N. face; dig pit 18x18x12 in. E and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
83,23	Intersect. Guide Meridian 2.40 chs. 50° 19' E. of cor. of sec. 13- 18-19 and 24 as heretofore described
	Set a quartzite stone 17x7x6 in. 12 in. in the ground for

Subdivision of T. 5' N.R. 18 M.

chain	closing cor. of secs. 18 and 19 marked c.c. on E. face with 3 grooves on N. and S. faces; raise a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable - and destroy all marks on old cor. of secs. 13-18-19 and 24 referring to recs. 18 & 19 Land rough, broken, gradual slope Soil, clay, gravel and boulders. 4 th rate Rank growth of thorny shrub undergrowth Dense undergrowth. 83.23 class. -
4000	N. 0° 4' W. bet. secs. 17 and 18 Recurring gradually on rough surface Set a quartzite stone 18×8×7 in. 12 in. in the ground for 4 th rec. cor. marked 44 on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable Dry wash obtain S.E.
49,250	Set a quartzite stone 17×8×6 in. 11 in. in the ground for cor. of secs. 7-8-17 and 18 marked with 4 notches on 3 and 5 notches on E. edges; raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land sloping, and broken Soil clay and gravel drift 4 th rate No timber Thorny shrub undergrowth. -
80,000	N 89° 57' E on a random line bet. recs. 8 and 17 Set temp. 44 rec. cor. Intersect N. and S. line 7 lbs N. of cor. of secs. 8-9-16 and 17 Thinner trees Most on a tree line bet. recs. 8 and 17 Over rough broken slope Set a quartzite stone 15×10×8 in. 10 in. in the ground marked ^{mark on N. face} for 4 th rec. cor.; raise a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable The cor. of secs. 7-8-17 and 18 Land sloping, broken and rough Soil clay and gravel 4 th rate No timber Rank growth of thorny shrub.

Having from resurvey of Quick Meridian I can not close on cor. of secs. 7-12-13 and 18 within limit I run.

Subdivision of T.S. N.R. 18 W.

chain	West bd. secs. 7 and 18
23,80	Ovoo broken surface ascending gradually Dry wash drains S. 30° E.
40,00	Set a quartzite stone 18x8x7 in. 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
81,40	Thin cor. stands in edge of dry wash draining S.E. Intersect Guide Meridian 3.09 ch. S 1° 18' W. of cor. of sec. 7-12-13 and 18 as heretofore described
	Set a quartzite stone 17x12x8 in. 11 in. in the ground for closing cor. of secs. 7 and 18 marked C.C. on E. face with 4 grooves on S and 2 grooves on N. faces; raise a mound of stones 2 ft. base 1 $\frac{1}{2}$ ft. high E. of cor. Pits impracticable And destroy all markings on old cor. of sec 7-12-13 and 18 referring to secs. 7 and 18
	Land rough broken slope Soil gravelly and rocky 4 ft nati No timber
	Thorny shrub undergrowth
	May 15: at thin cor. Set off 18° 43' 45" N. on the decline and at 18° 45' 6" a.m., 7 m. T. observed the sun on the meridian the resulting lat. is 41° 10' 30" N.-
	N 0° 4' W. bd. secs. 7 and 8
	Ascending gradually
40,00	Set a quartzite stone 18x8x6 in. 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; raise a mound of stones 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
80,00	Set a limestone 17x7x6 in. 11 in. in the ground for cor. of secs. 5-6-7 and 8 marked with 5 notches on S. and E. edges; dig pit 18x18x12 in. in each sec 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land sloping and broken Soil clay, gravel and boulders 4 ft nati No timber.-
	Thorny shrub undergrowth--
	East ov. a random line bd. secs. 5 and 8
40,00	Set limb. $\frac{1}{4}$ sec. cor.
80,00	Intersect N and S. line 7 lbs N. of cor. of secs. 4-5-8 and 9

Subdivision of T.5 N.R.18 W.

	chain	Three I run
		N 89° 57' W on a level line between 5 and 8
		Overs rolling, sloping surface
4003		Deposit a quart of broken glass 12 in. in the ground for 1/4 sec. cor.; dig pit 18 x 18 x 12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high overs deposit -
		In E. pit drove a pine stake 2 ft. long 2 in. sq 12 in. in the ground marked
		1/4 S. 5° on N. face and 8 on S. face
8006		The cor. of sec. 5-6-7 and 8
		Land broken slope
		Soil, clay, and wash gravel 4 ft. rate -
		No timber
		Low thorny shrub undergrowth -
		Knowing from the review of the Grid sounding I can not close in the cor. of sec 1-6-7 and 12 within the limits, I run
		West bet. sec. 6 and 7
		Overs broken, sloping land
1515		Dry wash drains S. 20° E
2430		Dry wash drains S. 25° E
3185		Dry wash drains S. 25° E
4000		Set a granite stone 16 x 12 x 6 in. 11 in. in the ground for 1/4 sec. cor. 7 marked 1/4 on N. face; raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable.
8258		Intersect Grid Meridian 320 dm. S. 0° 35' E. of cor. of secs. 1-6-7 and 12 as heretofore described -
		Set a granite stone 18 x 6 x 6 in. 12 in. in the ground for closing cor. of secs. 6 and 7 marked C.C. on E. face with 1 groove on N. and 5 grooves on S. faces; raise a mound of stones 2 ft. base 1 1/2 ft. high E. of cor. -
		Pit impracticable
		And remove all markings from old cor. of secs. 1-6-7 and 12 referring to secs. 6 and 7
		Land broken sloping bench
		Soil gravelly wash 4 ft. rate -
		Timber; a few scattering scrub cedars on W. 20 dm.
		Low thorny shrub undergrowth -

Subdivision of T. 5 N. R. 18 W.

Chain 4,000	N. 0° 4' W. over a random line bet. sec. 5 and 6 At limb. 44 sec. cor.
83,12	Interval N. side of Th. at cor. of sec. 5-6-31 and 32 as hitherto described
	Thinned I rear
	S. 0° 4' E. over a blue line bet. sec. 5 and 6
	Over mountainous land
	Along top of abrupt slope E.
5,00	A short ravine 30 ft. deep bearing E.
34,50	Begin abrupt descent course N. 75° W. and S. 75° E.
43,00	Foot of steep ^{descent} bears easterly and westerly; beginning of gradual slope
43,12	At a limestone 10 x 8 x 6 in. 11 in. in the ground for 44 sec. cor. marked 44 on W. face; dig pit 18 x 18 x 12 in. N. and S. of above 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
60,00	Beginning of abrupt descent course E. and W.
70,30	Descent becomes gradual course E. and W.
83,12	Thru cor. of sec. 5-6-7 and 8. This cor. stands 300 ft. below. the beginning of descent. Land broken, mountainous slopes Soil gravelly wash 4 ft. rate No timber Thorny shrub undergrowth Mountainous land 83,12 chain.

May 15, 1903

May 16: I return to the meridian at my camp near the center of sec. 24 T. 5 N. R. 18 W. and at 7:41 a.m., I set off 41° 4' W. on the lat. arc 18° 36' W. on the decl. arc, testing the adjustments of my solar and, find it indicates a meridian within 30" of arc of the meridian determined by Polar observations from which I infer that the adjustments of the instrument are correct and further test at this time unnecessary.—

May 16, 1903

General Description

This township is composed of about equal parts of barren, arid, alkali desert; and bench and mountain land.—The desert is without vegetation of any kind; the

Subdivision of T. 3 N. R. 18 E.

remainder is covered with a stony scrub of two kinds known as chadscale and greenwood, respectively and in a few places patches of caligrass but no other grasses to mention. There is no timber except a few stunted cedar in sec. 6 over any fresh water except a couple of small springs which does not flow further than about 300 ft. away from the land. The south-western part of the desert is covered each spring with saline brackish flows from the melting snows on the Pilot Range and finding no drain it spreads over the desert, dissolving the salt crust and becoming a strong brine; it however dries up in the late summer.—
There are no quartzes nor mines nor indications of mineral of any kind.—
There are no settlers nor improvements within the township.

Andrew P. Johnson

U. S. Topl. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted: _____

, Chainman.

, Chainman.

, Moundman.

Fair final affidavits see last Z³ J. T. M. R. W., Moundman.

, Axman.

, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

, Chainman.

, Chainman.

, Moundman.

Fair final affidavits see last Z³ J. T. M. R. W., Moundman.

, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Final affidavit see book 2, page 100

_____ of the
meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Dale Colby, Dale March 31, 19-
The foregoing field notes of the survey of the subdivision in the
Township 5 South Range 18 West of the Dale Lake
Box 4 Meridian, Utah.

executed by *Andrew J. Cannon*,
under his contract No. *Id.*, dated *March 18, 1903*, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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JAN 28 1904
*W.H.B.*X.8.13

FIELD NOTES

OF THE SURVEY OF THE

*East Boundary**of**Prairieville No. 6 North Range No. 18 West*of the *Salt Lake Base and Meridian,*
State of Utah

AS SURVEYED BY

*Andrew P. Hansen, United States Deputy Surveyor,*Under his Contract No. 261, dated *March 18* 1903, 189-Survey commenced *May 16* 1903, 189-Survey completed *May 17* 1903, 189-

6-161

High 2-08-44 ✓
 low 4-00-00. ✓ 6.08⁴⁴

NAMES AND DUTIES OF ASSISTANTS.

J. P. Hoffmann	Chairman
R. J. Taviselli	Chairman
O. P. Hoffmann	President
Frank Hoffmann Jr.	Secretary
R. J. Frisella	Precinct
Frank Hoffmann Jr.	Finance
B. R. Lawrence	Flagman

For further inquiry address S. J. C. M. A. D.

BOOK A-301

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
20	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measuring, to the best of our skill and ability, and in accordance with instructions given us, in the

, Chain

, Chai

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the

, Mound

, Moun

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the

, Ax

, Ax

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of

, Flagm

Subscribed and sworn to before me this }
day of , 189 }



East Boundary of T 6 N R 18 W.

chain Survey commenced May 16, 1903, and executed with a W & L. G. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double vernier placed opposite to each other reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination axes. —

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 6, 1903. Having this day tested the adjustments of the instrument on a meridian established from Polaris as described at end of field note of subdivision line of T. 5 N. R. 18 W., "Book P.", reference to which is hereby made; and found them correct I consider it unnecessary to repeat said test here. —

I begin at the cor. of townships 5 and 6 in ranges 17 and 18 W., as herebefore described and calculating a course for the E. bdy. of T. 6 N. R. 18 W.; from four surveys N.W. and S. bdy. 0 mm.

N. 0°14' W. on a random line along E. bdy. of T. 6 N. R. 18 W., setting back the sec. and sec. cor. at intervals of 4000 ft. and at 488' 4 in. from N. bdy. of T. 6 N. R. 18 W.; 14.88 ft. E. of cor. of Tps. 6 and 7 N. R. 17 and 18 W., as herebefore described. — The following answer to a correction of 0°1' or 2½ sec. per mile consisting from the N.E. end of the Tp. which added to the random course gives a random course of 50°15' E.; therefore from

S. 0°15' E. between 1 and 6

Through dense undergrowth

48.44 Set a limestone 16 x 8 x 5 in. 11 in. in the ground for 44000. cor. marked 44000. on S. face; dip plate 10 x 10 x 12 in. S. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 15 ft. height 11. of cor.

55.00 Dry wash & floods drain S. 20° E

88.44 Set a limestone 16 x 8 x 5 in. 11 in. in the ground for cor. of sec. 1-6-4 and 12 marked with 1 notch on N. and 5 notches on S. edge; dip plate 10 x 10 x 12 in. in each sec. 3½ ft. dist. and raise a mound of earth 2 ft. base 2½ ft. height 11. of cor.

Land level, rough surface

East Boundary of T. 6 N. R. 18 W.

Chain Soil clay 3rd rate
No timber
Rank thorny shrub underbrush 2 to 6 ft. high
Dense undergrowth - 8,000 chs.

5. 0°15' E. bet. accs. 7 and 12
Through dense undergrowth -
 4,000 Set a limestone 14x8x6 in. 11 in. in the ground for cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
 8,000 Set a limestone 18x6x6 in. 12 in. in the ground for cor. of accs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches over S. edges; dig pit 18x18x12 in. in each acc. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land level, rough surface
Soil clay 3rd rate
No timber
Thorny shrub undergrowth 2 to 4 ft. high
Dense undergrowth - 8,000 chs.

May 16, 1903

May 17: at 7420 m a.m., 7. m.t. - Incl off 41° 15' 30" N
on the lat. arc 19° 10' 00" W. from the decl. even and determine
a meridian with the solar at the cor. of accs. 7-12-13 and 18
Through dense
0.0°15'E. bet. accs 18 and 18
Over level land
 4,000 Set a tufa stone 16x8x6 in. 11 in. in the ground for
the acc. cor. marked 1/4 on W. face; dig pit 18x18x12
in. N. and S. of stone 3 ft. dist. and raise a mound of
earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
 8,000 Set a limestone 17x7x6 in. 12 in. in the ground for
cor. of accs. 18-18-19 and 24 marked with 3 notches on
N. and S. edges; dig pit 18x18x12 in. in each acc. 6 1/2
ft. dist. and raise a mound of earth 4 ft. base 2 ft. high
W. of cor.
Land level, rough surface
Soil clay 3rd rate
No timber

East Boundary of T.G.M.R. 1844.

Ovaline

Thorny shrub undergrowth -

S. 0° 15' E. bet. secs. 19 and 24

Over level land

4,000

Set a lime stone 16x7x6 in 11 in. in the ground for 1/4 sec. cor. marked 14 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

5,000

Dry wash 3 ft. deep drains S.; thence along wash to -

8,000

Set a limestone 18x7x6 in. 12 in. in the ground for cor. of secs. 19-24-25 and 30 marked with 4 notches on N. and 2 notches on S. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. - Thin cor. in edge of wash dry S.W.

Land level, rough surface

Soil clay with some alkali 3rd rate -

No timber

Thorny shrub undergrowth -

S. 0° 15' E. bet. secs. 25 and 30

Dry wash drains S. 2.0° E

4,000

Set a limestone 15x7x5 in. 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

7,000

Dry wash drains S.E.

8,000

Set a limestone 16x7x5 in. 11 in. in the ground for cor. of secs. 25-30-31 and 36 marked with 3 notches on N. and 1 notch on S. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. -

Land level, rough surface

Soil clay with some alkali 3rd rate -

No timber.

Thorny shrub undergrowth -

S. 0° 15' E. bet. secs. 31 and 36

Over level land

4,000

Set a limestone 16x7x5 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2

East Boundary of T. G. N. R. 1891.

chain ft. base 1 $\frac{1}{2}$ ft. high 6 ft. of cor.
 4120 Dry wash, drains S. E. 3 ft. deep; bottom white alkali dust
 covered with low hillocks; bears Gravel &c.
 5000 The cor. of the S. and E. R. R. 17 and 18 M.
 Land level, rough surface
 Soil clay and alkali 4 $\frac{1}{2}$ rate
 No timber
 Low, stony alkali undergrowth
 May 17: At the cor. I set off 19° 12' N. on the declination
 and at 11 $\frac{1}{2}$ 56" Q.M. I. M. T. observed the sun on the
 meridian; the resulting lat. is 41° 12' N.

May 17, 1903.

Boundaries of T. G. N. R. 1891.
 Latitudes departures and closing errors

Line Designated	True bearing	Distance chain	Latitude		Departure	
			N chain	S chain	E chain	W chain
Guide Meridian	N. 0° 0' W	81.24	81.24			
" "	N. 0° 38' E.	80.10	80.10		.89	
" "	N. 0° 3' E.	80.36	80.36		.04	
" "	N. 0° 5' W.	80.77	80.77			.12
" "	N. 0° 18' W.	79.97	79.97			.42
" "	N. 0° 10' W	80.10	80.10			.23
North Ridge	N. 88° 36' E.	40.05	.98		10.04	
" "	N. 89° 18' E	40.10	.49		40.10	
" "	N. 89° 17' E.	80.10	1.00		80.09	
" "	N. 89° 34' E	79.78	.60		79.78	
" "	N. 89° 6' E	40.14	.63		40.13	
" "	N. 88° 31' E	40.00	1.04		39.46	
" "	N. 89° 17' E	80.37	1.05		80.36	
" "	N. 89° 40' E	80.20	.47		80.20	
East Ridge	S. 0° 15' E	488.44		488.44	2.13	
South Ridge	W. 1° 57' W.	453.24	.28			453.24
Convergency			V	V	6.63	
Total:			487.05	488.44	484.40	484.15
Error of Lat.			487.44		484.52	
					0.64	0.25

General Description

For general description see addendum of the Th. Park R.

Andrew J. Leonard
Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
showing the respective capacities in which they acted:

, Chainman.

, Chainman.

, Moundman.

The final affidavit of Z. Gle. M. D. M. Moundman.

, Axman.

, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

of the

meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor

General for

, Chainman.

, Chainman.

, Moundman.

The final affidavit of Z. Gle. M. D. M. Moundman.

, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this
day of , 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Half final affidavit seal book T. F. M. P. C. H.

of the

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Dakota Territory, March 31, 1904.

The foregoing field notes of the survey of the East Townships of Township 6 North Range 18 West of the First Meridian, Dakota Territory,

executed by _____, *Andrew J. Hanson*, dated _____, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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R.

BOOK A-301

W.H.H.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 6 North - Range No 18 West

of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 261, dated March 18, 1903, 189

Survey commenced May 17, 1903, 189

Survey completed May 24, 1903, 189

6-151

High - 20-61-17 ✓
 low - 39-53-85 ✓ 60°35'°
 dog - 9-66-7

NAMES AND DUTIES OF ASSISTANTS.

J F Hoffmann

Chairman

R J Friseth

"

J F Hoffmann

Assistant

Frank Hoffmann Jr.

"

R J Friseth

Assistant

Frank Hoffmann Jr.

"

B R Lawrence

Flagman

The preliminary affidavit on back of H.H.M.P.

6-161

Volume

#

R0301

BOOK A-301

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measure, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____.

, Chai

, Chai

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____.

, Mound

, Mound

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____.

, Ax

, Ax

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____.

, Flag

Subscribed and sworn to before me this _____
day of _____, 189 }



Subdivision of T. 6 N. 12.18' W.

chain survey commenced May 17, 1903 and executed with a H. & L. E. Gruber light mountain transit and alidade attachment. The horizontal limb is provided with two double verniers placed opposite to each other, according to single vernier of one which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 6, 1903. Having tested the adjustments of the solar May 16 on a meridian established from Polaris, and found them correct as described at the beginning of "Book Q" and being confident the instrument is still in the same condition I consider it unnecessary to repeat the test at this time.—

I begin at the cor. of secs. 1-2-35 and 36 on S. bdy of Tp. 6 N. 12.18' W. as heretofore described, and at 2^h 0^m p.m., T. m. T. set off 41° 12' N. on the lat. arc 19° 13' N. on the decl. arc, determining a meridian with the solar, the magnetic course of which is N. 17° 30' W.; the angle thus determined gives the mag. decl. 17° 50' E.. —

From the Tp. cor. already described I run
N. 0° 16' W. bet. secs. 35 and 36

Over mountainous land

Descending to

- 4,26 Foot of mountain bears S.W. and E. 30 ft. below cor
Leave mountainous land
- Then descending on gradual slope to
- 2,500 Foot of slope bears N. and S.E.; enter level surface
- 4,000 Set a quartzite stone 16 x 7 x 6 in. 11 in. in the ground
for 1/4 sec. cor. marked N. on W. face; dig pile 18 x 18 x 12 in
N. and S. of above 3 ft. dist. and raise a mound of earth 34
ft high 15 ft. high W. of cor.
- 8,000 Set a quartzite stone 15 x 8 x 8 in. 10 in. in the ground
for cor. of secs 25-26-35 and 36 marked with 1 notch
on S. and E. edges; dig pile 18 x 18 x 12 in. in each cor.
5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high
W. of cor.
- Land mountainous, sloping, and level
Soil gravelly, and clay with some alkali & salt

Subdivision of T. G. N. 12.1834.

	No timber Thorny shrub underground - Mountain land 4.25 ac.
40.00	S 89° 58' E. on a random line bet. secs. 25 and 36 Set limb, 1/4 sec. cor.
80.00	Intersect E. bdy of Tp. at cor. of secs. 25-30-31 and 36 ac. Surveyor described River Draw N. 89° 58' E. on a river line bet. secs. 25 and 36 Over level land
160.00	Deposit: a quart of broken glass 12 in. in the ground for 1/4 sec. cor. dig. pit 18x18x12 in. E. and W. of cor. 4 ft. dirt. and raise a mound of earth 3 1/2 ft. base 15 ft. high over deposit. In E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
80.00	1/4 S. 25 to N. face and 36 on S. face Thw cor. of secs. 25-26-35 and 36 Land level Soil clay and alkali 4 ft. rate No timber Thorny shrub underground in patches
40.00	N. 89° 16' W. bet. secs. 25 and 26 Over level land
80.00	Set a quadrangle about 16x6x6 in 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of above 3 ft. dirt. and raise a mound of earth 3 1/2 ft. base 12 ft. high 8 ft. off cor.
80.00	Set a quadrangle 16x7x6 in. 11 in. in the ground for cor. of secs. 23-24-25 and 26 marked with 2 notches on S. and 1 on N. on E. edge; dig pit 18x18x12 in. in each all 6 1/4 ft. dirt. and raise a mound of earth 4 ft. base 2 ft. high. W. of cor. Land level, rough surface Soil clay with some alkali 4 ft. rate No timber Patches of thorny shrub underground with alkali flats between
40.00	S 89° 58' E. on a random line bet. secs. 24 and 26 Set limb 1/4 sec. cor.
80.00	Intersect E. bdy of Tp. & N. of cor. of secs. 19-24-26 and 30

Subdivision of T.G.N.R. 18 m.

chain	as heretofore described
	Thence S run N 89° 53' W on a true line bet. recs. 24 and 25 -
	Over level land ^{dry, north drainage S.E.} Set a. quartzite stone 16x8x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E and W. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80,00	The cor. of recs. 23-24-25 and 26 Land level, rough surface Soil clay and some alkali 3rd rate - No timber Patch of thorny shrub undergrowth with alkali flats between..
	May 17, 1903
40,00	May 18: At 7 ^h 30 ^m a m, I set off 41° 14' N. on the lat. arc 19° 23' N. on the declin. and determine a meridian with the colars at the cor. of recs. 23-24-25 and 26 Thence S run N. 0° 16' W. bet. recs. 23 and 24
	Over level land
40,00	Set a limestone 16x7x5 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80,00	Set a limestone 16x7x4 in. 11 in. in the ground for cor. of recs. 13-14-23 and 24 marked with 3 stones on S. and 1 notch on E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level, rough surface
	Soil clay with some alkali 3rd rate -
	No timber
	Low thorny shrub undergrowth -
40,00	S 89° 53' E. on a random line bet. recs. 13 and 24 Set 1/4 rec. cor.
80,06	Intersection E. bdy. of Tp. at cor. of recs 13-18-19 and 24 or heretofore described
	Thence S run N 89° 53' W. on a true line bet. recs. 13 and 24.
	Over level land

Subdivision of T. C. N. R. 18 W.

claims 2404	Dry marsh drainage S.E.
40,03	Debris: a quart of broken glass 12 in. in the ground for 1/4 ac.; dig pit 18 x 18 x 12 in. E. and W. of cor. of pl. dirt and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked. W.S. 13 on N. face and 24 on S. face.
80,06	Thru cor. of accs. 13-14-23 and 24 Land level, rough surface Soil hard clay, mostly barren. 3rd rate No timber Thorny shrub undergrowth in patches.
	N 8° 16' W. bet. accs. 13 and 14 Over level land
40,05	Set a limestone 16 x 7 x 5 in. 11 in. in the ground for 1/4 acre cor. marked 1/4 of acc. N. face; dig pit 18 x 18 x 12 in. W. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80,55	Set a limestone 16 x 7 x 5 in. 11 in. in the ground for cor. of accs. 11-12-13 and 14 marked with 4 numbers on S and 1 mush on E. edges; dig pit 18 x 18 x 12 in. in each acc. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land level Soil clay 3rd rate No timber Low, thorny shrub undergrowth
	S. 89° 55' E. on a random line bet. accs. 12 and 13
40,06	Set lime - 1/4 acc. cor.
80,04	Debris E. bdy. of pl. 5 ft. s. of cor. of accs. 1-12-13 and 18 as heretofore described Fence line S. 89° 57' W. on a line between 12 and 13 Over level land
40,02	Debris: a quart of broken glass 12 in. in the ground for 1/4 ac.; dig pit 18 x 18 x 12 in. E and W. of cor. of pl. dirt and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit. In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the

Subdivision of T. 6 N. R. 18 W.

	chain ground marked 1/4 S. 12 on W. face and 13 on S. face The cor. of secs. 11-12-13 and 14. Land level Soil clay 3 rd rate No timber Low thorny shrub undergrowth-
80.04	N. 0° 16' W. bet. secs. 11 and 12 Over level land Set a limestone 16 x 7 x 5 in. 11 in in the ground for 1/4 sec cor. marked 1/4 on W. face; dig pit 18 x 18 x 12 in. N. and S. of cor., 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
40.00	Set a石灰 stone 16 x 8 x 5 in 11 in in the ground for cor. of sec. 1-2-11 and 12 marked with 5' notches on S and 1 notch on E. edge; dig pit 18 x 18 x 12 in in each sec. 3 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land level Soil clay 3 rd rate No timber Low ragweed and scale undergrowth - (May 18: At this cor I set off 19° 25' ✓ Now the decl. arc and at 11° 56' min, must observe the sun on the meridian, the resulting lat. is 41° 16' 30" N.)
80.00	5.89° 57' E. on a random line bet. sec. 1 and 12. Set lime 1/4 sec. cor. Interval E. side of Th. 7 less 5 of cor. of sec 1-6-7 and 12 as heretofore described Thence down West on a true line bet. sec. 1 and 12 Over level land Set a limestone 16 x 7 x 5 in. 11 in in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high N. of cor. The cor. of secs. 1-2-11 and 12 Land level Soil clay 3 rd rate No timber

Subdivision of T.C. N.W.R. 18 W.

chain Thorny shrub undergrowth -

	N 0° 16' W. on a random line bet. recs. 1 and 2 Set line. 1/4 ac. cor.
40,00	Indirect S. bdy. of Tp. 12th N 89 30' E. of cor. of recs 1-2-35 and 36 as heretofore described Thence N run S 0° 21' E. on a bear line bet. recs. 1 and 2 Over level land
47,86	Deposit a quart of broken glass 12 in. in the ground for 1/4 ac. cor.; dig pit 18x18x12 in. N. and S. of cor. 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit; - In S. pit drive a pine stake 2 ft. long 2 in. off 12 in. in the ground marked - 1/4 S. 2 on N. face and 1 on E. face
87,86	The cor. of recs. 1-2-11 and 12 Land level Soil clay 3rd rate - No timber Low sage and sagebrush undergrowth -

	From the cor. of recs. 2-3-34 and 35 on S. bdy. of Tp. as heretofore described N run N. 0° 17' W. bet. recs. 34 and 35 Over level land
40,00	Set a limestone 18x5x6 in. 12 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80,00	Set a limestone 18x7x6 in. 12 in. in the ground for cor. of recs. 26-27-34 and 35 marked with 1 notch on S. and 2 notches on E. edges; dig pit 18x18x12 in. in each rec. 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Land level

Soil clay with some alkali 3rd rate
No timber

Thorny shrub undergrowth -

	S. 89° 55' E. on a random line bet. recs. 26 and 35 Set line. 1/4 ac. cor.
--	---

Subdivision of T. G. M. 18-18-91.

chain

8,770	Entered N. and S. line 5' th. S. of cor. of accs. 25-26-35 and 36 Thence S. run West on a true line bet. accs. 26 and 35 Over level land
4,000	Left granite or quartz of broken glass 12 in. in the ground for 1/4 acre. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 15 ft. high over deposit In E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked N. S. 2 ft. on N. face and 35' on S. face
9,000	Thru cor. of accs. 26-27-34 and 35 Land level, rough surface Soil clay and alkali 3rd rate No timber Rank thorny shrub in patches with alkali flats between
26,500	N. 0°17' W. bet. accs. 26 and 27 Over level land
4,000	Left a wash drain E. 2 ft. deep. Set a limestone 16x8x5 in. 11 in. in the ground for corner cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 15 ft. high N. of cor.
5,000	Set a limestone 17x8x5 in. 11 in. in the ground for cor. of accs. 22-23-26 and 27 marked with 2 notches on S. and E. edges; dig pit 18x18x12 in. in each acc. 5 1/2 ft. dist. and raise a mound of earth 2 ft. base 2 ft. high N. of cor. Land level Soil, clay, and sand, gravelly wash 3rd rate No timber Thorny shrub underground
	May 18, 1903

May 19 cl run

East on a random line bet. accs. 23 and 26

4,000 ft. high. 1/4 acre. cor.

8,016 Entered N. and S. line at cor. of accs. 23-24-25 and 26

Thence S. run

West on a true line bet. accs. 23 and 26

Over level land

Subdivision of T. C. N.R. 18 W.

chain	
4,005	<p>Deposit or quartz of broken glass 12 in. in the ground for $\frac{1}{4}$ sec. cor.; dig pit - 18 x 18 x 12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high over deposit</p> <p>In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>$\frac{1}{4}$ S. 23 on N. face and 26 on S. face</p>
8,016	<p>The cor. of secs. 22-23-26 and 27</p> <p>Land level</p> <p>Soil clay and some alkali 3rd rate</p> <p>No timber</p> <p>Thorny shrub undergrowth -</p>
4,000	<p>N. 0° 17' W. bet. secs. 22 and 23</p> <p>Over level land</p> <p>Set a limestone 17 x 8 x 6 in. 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; dig pit - 18 x 18 x 12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.</p>
8,000	<p>Set a limestone 17 x 8 x 6 in. 12 in. in the ground for cor. of secs. 14-15-22 and 23 marked with 3 notches on S. and 2 notches on E. edges; dig pit - 18 x 18 x 12 in. in each sec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.</p> <p>Land level</p> <p>Soil clay 3rd rate -</p> <p>No timber</p> <p>Thorny shrub undergrowth -</p>
4,000	<p>Cast on a random line bet. secs. 14 and 23</p> <p>Set timber $\frac{1}{4}$ sec. cor.</p>
8,010	<p>Intersect W. and S. line 5 lbs. W. of cor. of secs. 13-14-23 and 24</p> <p>Thinner Stream</p> <p>N. 89° 58' W. on a blue line bet. secs. 14 and 23</p> <p>Over level land</p>
4,005	<p>Deposit or quartz of broken glass 12 in. in the ground for $\frac{1}{4}$ sec. cor.; dig pit - 18 x 18 x 12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth - 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high over deposit</p> <p>In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>$\frac{1}{4}$ S. 14 on N. face and 23 on S. face</p>

Subdivision of T.C. N. 18 W.

Chairin 80,10	Thru. cor. of accs. 14-15-22 and 23 Land level Soil clay and some wash gravel No timber Lava burning already undergrowth
N. 0°17' W bet. accs. 14 and 15	
Over level land	
10,30	Dry marsh 2 ft. deep, drains E.
40,00	Pet. or limestone 17x8x6 in. 12 in. in the ground for 14 acc. cor. marked 44 on N. face; dig pit 18x18x12 in. N. and S. of above 3 ft. dish, and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. height N. of cor.
70,40	Dry marsh 4 ft. deep draining E.
80,00	Pet. or limestone 10x8x6 in. 11 in. in the ground for cor. of accs. 10-11-14 and 15 marked with 4 notches on S. and 2 notches on E. edges; dig pit 18x18x12 in. in each acc. 3 $\frac{1}{2}$ ft. dish, and raise a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land level
	Soil clay and some wash gravel
	No timber
	Lava burning already undergrowth
58° 58' E. on a random line between 11 and 14	
40,00	Pet. layer, 1/4 acc cor.
80,22	Outcrop N. and S. line 8 ft. 6 in. N. of cor. of accs. 11-12-13 and 14 There no lava
	N. 84° 55' W. on a true line bet. accs. 11 and 14
	Over level land
40,11	Deposit of quartz of broken glass 12 in. in the ground for 14 acc. cor.; dig pit 18x18x12 in. Found 8 in. of stones & ft. dish, and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high over deposit
	In E. pit drove a fine statue 2 ft. long 2 in. sq. 12 in. in the ground marked
	14 S. 11 m. N. face and 14 on S. face
80,22	Thru cor. of accs. 10-11-14 and 15
	Land level
	Soil clay 3 $\frac{1}{2}$ in.

Subdivision of T. 6 N. 13. 1. 8. 9. W.

Chains	No timber. Low thorny shrub undergrowth - and sagebrush. May 19: At this cor. I set off $19^{\circ} 38' 30''$ N. on the decl. arc and at $11^{\circ} 45' 6''$ a.m., 7.21.1 - observe the cor. on the meridians: the resulting lat. is $41^{\circ} 15' 30''$ N.
	N $0^{\circ} 17'$ W. b.d. recs. 10 and 11 Over level land
20.22	Dry wash 3 ft. deep, drains E.,
40.00	Set a limestone 16 x 7 x 7 in. 11 in. in the ground for 1/4 rec. cor. marked 14. on N. face; dig pit 18 x 18 x 12 in. N and S. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high N. of cor.
76.04	Dry wash 4 ft. deep, drains E.
80.00	Set a limestone 16 x 8 x 6 in. 11 in. in the ground for cor. of recs. 2-3-10 and 11 marked with 5. mounds on S. and 2 notches on E. edges; dig pit 18 x 18 x 12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth. 4 ft. base 2 ft. high N. of cor.
	Land level
	Soil clay 3 rd rate
	No timber.
	Low sagebrush and thorny shrub undergrowth
	S. $8^{\circ} 9' 55''$ E. on a random line bet. recs. 2 and 11
40.00	Set tumps. 1/4 rec. cor.
80.30	Indirect N. and S. line 7.00 ft. N. of cor. of recs 1-2-11 and 12 Thence I run
	N $8^{\circ} 9' 52''$ W. on a true line bet. recs. 2 and 11
	Over level land
40.15	Heapsite a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18 x 18 x 12 in. E and W. of cor. 4 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high over deposits
	Drw. E. pit drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	14. 5. 2 in. N. face and 11 in. S. face
80.30	Th. cor. of recs. 2, 3-10 and 11
	Land level
	Soil clay 3 rd rate
	No timber

Subdivisions of T. G. W. 12. 18' N.

Climate

Low sage and arid sage undergrowth

Aug. 19: At 3⁴.5 mi. N. 1. m. 1 - I set off 41° 16' 30" N. on the lat. and 12° 40' 30" W. on the decl. and determined a meridian with the solar at the cor. of sec. 2-3-10 and 11. Thence I went

N 0° 17' W. on a random line bet. sec. 2 and 3.

Set trans. 1/4 sec. cor.

Intersected N. bdy. off sec. 10 at 18° 59' E. of cor. of sec. 2-3-34 and 35 as heretofore described

Thence I went

S. 0° 21' E. on a line bet. sec. 2 and 3

Over level land

Set a quartzite stone 16x6x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor. -

Dry wash w. flats, drainage E.

Large wash 5 ft. deep drainage E.

The cor. of sec. 2-3-10 and 11

Land level

Soil clay 3 $\frac{1}{2}$ ft. pale

1/4 in. litter

Low sage and arid sage undergrowth

From the cor. of sec. 3-4-33 and 34 on N. bdy. of Th. as heretofore described I went

N. 0° 17' 35" bet. sec. 33 and 34

Over rolling E. slopes

Old road bed 5 20' E. and N. 20' W.

Streams of fresh water 1 ft. wide flow E. in hollow

Set a limestone 16x10x8 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.

Wash drains E. in hollow

Set a limestone 16x8x6 in. 11 in. in the ground for cor. of sec. 24-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edges; dig pit 18x18x12 in. in each sec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Subdivision of T. G. W. S. & R. R.

charin	Land rolling, and gradual slope soil clay and loose sand 3rd rate Pec. timber Low but dense, thorny shrub underground
5.29	58° E. on a random line bet. secs. 27 and 34
40.00	Set a line 16 ft. sec. cor.
80.32	Entered N and S. line 23 lbs N. of cor. of secs. 26-27-34 and 35.
	Three Drums
	58° 50' W. on a line bet. secs. 27 and 34
	Over level land to
32.00	Begin gradual ascent toward N. and S.
40.16	Deposit a quart of broken glass 12 in. in the ground for 14 sec. cor.; dig pit 18 x 18 x 12 in. E and W. of cor. 18 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high over deposit:-
	In E. pit drive a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	14 S. 27 on N. face and 34 on S. face
80.32	The cor. of secs. 24-28-33 and 34.
	Land level and gradual slope, rolling
	Soil clay and loose sand 3rd rate
	Pec. timber
	Low but dense, thorny shrub underground
	May 19, 1903.
	May 20. At 7:15 a.m., I set off 41° 13' N. on the lat. arc 19° 49' 30". Now the decl. arc and determine as meridian with the solar at the cor. of secs. 27-28-33 and 34 three Drums
	N. 0° 17' 47. bet. secs. 24 and 28
	Over rolling gradual slope
40.00	Set a line 16 x 18 x 12 in. in the ground for 14 sec. cor. marked 14 on N. face; dig pit 18 x 18 x 12 in. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high 18 in. of cor.
57.00	Placing 30 ft. deep drains E.
80.00	Set a line 16 x 18 x 12 in. in the ground for cor. of secs. 21-22-23 and 24 marked with 2 notches on S. and 3 on N. line on E. edge; dig pit 18 x 18 x 12 in. in each

Subdivision of T. C. N. R. 18 W.

Cham.	<p>rec. 3 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land rolling and sloping.</p> <p>Soil clay and loess sand 3rd rate.</p> <p>No timber.</p> <p>Low but dense thorny shrub undergrowth.</p>
40,000	<p>S. 89° 50' E. on a random line bet. recs. 22 and 27.</p> <p>Set temp. 1/4 rec. cor.</p>
8,0,24	<p>Intersect. N. and S. line 10 ltrs. S. of cor. of recs. 22-23-24 and 27.</p> <p>Thinned Draw</p> <p>N. 89° 51' 4" W. on a line line bet. recs. 22 and 27</p> <p>Over level land</p>
4,0,12	<p>Deposit a quart of broken glass 12 in. in the ground for 1/4 rec. cor.; dig pit 18x18x12 in. E. and W. of cor. 4 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposit.</p> <p>In E. pit drove a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked</p> <p>1/4 S. 22 on N. face and 27 on S. face</p> <p>Began gradual ascent bears N. and S.</p> <p>Thru cor. of recs. 21-22-27 and 28</p> <p>Land level and gentle slope</p> <p>Soil clay and gravelly 3rd rate</p> <p>No timber.</p> <p>Thorny shrub undergrowth</p>
8,0,24	<p>N. 0° 17' W. bet. recs. 21 and 22</p> <p>Over rolling, gentle slope.</p> <p>Set a limestone 17x7x6 in. 11 in. in the ground for 1/4 rec. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p> <p>Set a basaltic stone 16x8x8 in. 11 in. in the ground for cor. of recs. 15-16-21 and 22 marked</p> <p>On N. on N. G. and</p> <p>18 in. on S. E. faces with 3 notches on S. and E. edges; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.</p> <p>Land sloping and rolling.</p>

Subdivision of T.G. N 18.18 W

Claims	Soil gravelly 3rd rate No timber Low sage and sagebrush undergrowth-
4000	S. 89° 54' E. on a random line bet. acc. 15 and 22 Set at 1/4 sec. cor.
80.06	Intersect N. and S. line 7 lbs. S. of cor. of sec. 14-15-22 and 23 Three Drains N. 89° 57' W. on a true line bet. sec. 15 and 22 Over level land
35.00	Begins gradual ascent, course N. and S.
40.03	Set a quartzite stone 18x8x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.06	The cor. of sec. 15-16-21 and 22 Land broken, gradual slope, and level Soil gravelly and clay 3rd rate No timber Low but dense, thorny shrub undergrowth-
1370	N. 0° 17' W. bet. acc. 15 and 16 Over gradually sloping, rolling land Long and drawn E.
40.00	Set a quartzite stone 16x8x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pit 18x18x12 ins. W. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set a limestone 18x10x6 ins. 12 ins. in the ground for cor. of acc. 9-10-15 and 16 marked with 4 notches on S. and 3 notches on E. edges; dig pit 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land sloping and rolling Soil gravelly 3rd rate No timber Low sagebrush and sagebrush undergrowth-
	May 20: At this cor. I set off 19° 57' 30" N. on the declivity and at 114.5 gm a.m., long. observed the sun on the meridian The resulting lat. is 41° 15' 30" N.
	389° 57' E on a random line bet. acc. 10 and 13

Subdivision of T.6 N.18 W.

Charles	
40,00	Set temp 1/4 acr. cor.
79,80	Subdivid N. and S. line 8 ft. fr. S. of cor. of recs. 10-11-14 and 15. Thence down. West on a low line bet. sec. 10 and 15-
	Over level land to
33,00	Begins grad. a east course N. and S.
39,90	Deposits a quantity of broken glass 12 in. in the ground for 1/4 acre, dig pit 18x18x12 in. E and W. of cor & fill dirt, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high over deposits In E. pit drives a pine stake 2 ft. long 2 in. sq. 12 in. in the ground marked
	1/4 S. 10 on N. face and 15 on S. face
79,80	Thw. cor of recs. 4-10-15 and 16 Land level, and gradual slope Soil clay and gravelly 3 rd rate No timber Low sage and chadscale undergrowth-
	N.0'17'W. bet. recs. 9 and 10
	Over rolling, gradual slope
39,80	Dry wash 3 ft. deep drains S. 80° E.
40,00	Set a quantity of stones 18x7x6 in. 12 in. in the ground for 1/4 acr. cor. marked 1/4 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dirt, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
64,60	Dry wash 3 ft. deep drains E.
80,00	Set a purplish gray stone 16x9x6 in. 11 in. in the ground for cor. of recs. 3-4-9 and 10 marked with 5 switches on S. and 3 switches on E. edge; dig pit 18x18x12 in. in each rec. 5 1/2 ft. dirt, and raise a mound of earth 4 ft. base 2 ft. high W. of cor.-
	Land rolling, gradual slope
	Soil gravelly, and clay 3 rd rate
	No timber
	Low sage and chadscale undergrowth-
	East on a random line bet. recs. 3 and 10
40,00	Set temp 1/4 acr. cor.
79,98	Subdivid N. and S. line ab. cor. of recs. 2-3-10 and 11 Thence down

Subdivision of T. C. N. 12. 18 M.

	West on a blue line bet. recs. 3 and 10 Over nearly level land to
39.99	Set a porphyry stone $10 \times 8 \times 5$ in. 11 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pit $18 \times 18 \times 12$ in. E. and W. of stone 3 ft. dirt. and raise a mound of earth $3\frac{1}{2}$ ft. base 15 ft. high N. of cor.
79.98	Began gradual ascent. bears N. and S. The cor. of recs. 3-4-9 and 10 Land level and gradual slope Soil clay and gravelly 3^{rd} rate No timber Low sage and shrubby undergrowth
40.00	N. $0^{\circ}17'$ W. on a random line bet. recs 3 and 4 Set limits. $\frac{1}{4}$ sec cor.
85.48	Indirect N. bdy of Tp. at cor. of recs. 3-4-33 and 34 as heretofore described Thence down S. $0^{\circ}17'$ E. on a blue line bet. recs. 3 and 4 Over mountainous land Ascending gradually
200	Ascent becomes abrupt on rocky slope
35.50	Top of spur E. 300 ft. above cor. Begin descent
44.00	Bottom of hollow drain 8.85° E. 250 ft. below spur Begin ascent
45.48	Set a limestone $10 \times 9 \times 8$ in. 11 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; raise a mound of stones 2 ft. base 15 ft. high W. of cor. Pit impracticable
63.00	Top of spur runs E. 280 ft. high. - Descending
72.00	Foot of mountain bears N. E. and S. W.; enter gradual slope Leave mountainous land
85.48	The cor. of recs. 3-4-9 and 10 Land mountainous and gentle slope Soil rocky and gravelly 3^{rd} and 4^{th} rate No timber. - Mountainous land 72.00 chs. -
<i>May 20. 1903</i>	
Heavy rain prevented work on May 21	
May 22: At 7:12 a.m. I am off $41^{\circ}12' N.$ on	

Subdivision of T. 6 N. R. 18 W.

chain	the lat. arc 20° 14' 30" N. on the decl. arc and determine a meridian with the polar at the end of sec. 4-6-32 and 33 as heretofore described; thence I run N. 0° 18' W. bet. secs. 32 and 33
	Through dense undergrowth -
	Soil rolling, sloping surface
25,65	Streams of fresh water 1 hr. wide flows & in hollow 25 ft. deep.
4000	Set as limestone 18x6x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of above 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8000	Set as limestone 16x7x6 in. 11 in. in the ground for cor. of sec. 28-29-32 and 33 marked with 1 notch on S and 4 notches on E. edges; dig pit 18x18x12 in. in each sec. 3 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.
	Land broken slope
	Soil gravelly and sandy and 3 rd rate -
	No timber
	Dense thorny shrub undergrowth - 2 to 3 ft. high
	Dense undergrowth - 80,000 chs. -
	S 89° 58' E on a random line bet. secs. 28 and 33
4000	Set temp. 1/4 sec. cor.
79,80	Intersection N. and S. line 5 1/2 in. S. of cor. of sec. 27-28-33 and 34
	Thence I run
	West on a true line bet. secs. 28 and 33
	Through dense undergrowth -
	Ascending gradually on broken slope
26,23	Old road bears S 25° E and N. 25° W.
39,90	Set as limestone 16x6x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of above 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
44,45	Briggs claim S.E.
79,80	Through cor. of secs. 28-29-32 and 33
	Land sloping and rolling
	Soil gravelly and sandy 3 rd rate -
	No timber
	Dense thorny shrub undergrowth - 2 to 3 ft. high
	Dense undergrowth - 79,80 chs. -

Subdivision of T. 0 N 18 W.

Division

	N. 0°18' W. bet. acc. 28 and 29 Through dense undergrowth Over rolling slope
22,00	Dry wash in hollow 16 ft. deep, division E.
40,00	Set at limestone 16x18x6 in 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 in it and 3. of above 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
54,54	Dry wash in hollow 20 ft. deep, division E.
8,000	Set at limestone 16x18x6 in. 11 in. in the ground for cor. of acc. 20-21-28 and 29 marked with 2 matches on S. and 4 matches on E. edges; dig pit 18x18x12 in. in each acc. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land sloping and rolling Soil gravelly and loose sand 3rd rate - Timber, a few scattering cedar Ranks thorny shrub undergrowth - Dense undergrowth - 8,000 etc.
	East on a random line bet. acc. 21 and 28
40,00	Set tanks. 1/4 acc. cor.
79,78	Intersect N. and S. line at cor. of acc. 21-22-27 and 28 Glenwood River West on a line bet. acc. 21 and 28 Through dense undergrowth - Ascending gradually on broken slope
35,00	Enter cedar timber course N. and S. and enter Heavily timbered land - leave dense undergrowth -
39,89	Set at limestone 17x8x6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face from whence A cedar tree 6 in. diam. bears 846° W. 11 ft. dist. marked 1/4 S. 28° 43. T.
	A cedar tree 7 in. diam. bears W 26° 0' W. 19.5 ft. dist.
	Marked 1/4 S. 21 1/2 T.
54,00	Leave cedar timber bears N. and S. and Leave heavily timbered land Enter dense undergrowth -
71,90	Old road bears N. W. and S. E.
79,78	Thru cor. of acc. 20-21-28 and 29 Land, sloping and rolling

Subdivision of T. 6 N. 18 1/2 W.

	Noil loose sand and gravelly 3rd rate Timber cedar.
	Thorny shrub undergrowth - 2 to 3 ft. high Heavily timbered land and dense undergrowth - 79.78 cm. -
	N. 0° 18' W. betw. sec. 20 and 21
	Through dense undergrowth.
	Over rolling, sloping land
14.70	Old road. bears S.E. and N.W.
40.00	Set a limestone 16x8x5 in. 11 in. in the ground for 14 recs. cor. marked 14 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high W. of cor.
48.75	Hollow 20 ft. deep drains E.
80.00	Set a limestone 15x8x7 in. 12 in. in the ground for cor. of recs. 16-17-20 and 21 marked with 3 notches on S. and 4 notches on E. edge; dig pit 18x18x12 in. in each rec 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor. Land rolling and sloping
	Noil loose sand and gravelly 3rd rate -
	No timber
	Rank, thorny shrub undergrowth -
	Dense undergrowth - 8.00 cm. -
	May 22: At this cor. I set off 20° 16' N on the decl arc and at 11° 5' 60" A.M., July 7, observed the sun on the meridian; the resulting lat. is 41° 14' 45" N.
	East on a random line bet. recs. 16 and 21
40.00	Set larch. 1/4 in. on cor
79.90	Intersect N. and S. line 5' N.E. S. of cor. of recs 15-16-21 and 22 Shrub 1 mm
	8.89° 58' N. on a true line bet. recs. 16 and 21
	Through dense undergrowth -
	Ascending gradually
39.95	Deposit of quartz of broken glass 12 in. in the ground for 14 recs. cor.; dig pit 18x18x12 in. E and W of cor 4 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high over deposit - In E. pit drive a pine stake 2 ft. long. 2 in. sq. 12 in. in the ground marked
	14.5.3.6 on N. face and 21 on S. face
79.90	The cor. of recs. 16-17-20 and 21.

Subdivisions of T.C. M. 15. W.

chain	Land sloping and rolling Soil gravelly 3rd rate No timber Thorny shrub undergrowth 2 to 3 ft. high Bare undergrowth - 79.90 cfm:-
15.00	N. 0° 18' W. between 16 and 17 Through dense undergrowth Over rolling sloping land Sallow 2.5 ft. deep drain E.
40.00	Set a limestone 18x9x8 in 12 in. in the ground for 14 acres. marked 14 on N. face; raised or rounded of stones 2 ft. base 1.5 ft. high W. of cor. Pit impracticable
80.00	Set a limestone 18x9x7 in. 12 in. in the ground for cor. of acs. 8-9-10 and 17 marked with 4 matches on S. and E. edges dig pit 18x18x12 in. in each cor. 5 1/2 ft. deep and raised or rounded of earth 4 ft. base 2 ft. high W. of cor.
	Land rolling and sloping Soil gravelly and boulders 3rd rate No timber Thorny shrub undergrowth 2 to 3 ft. high Bare undergrowth - 80.00 cfm:-
40.00	N. 89° 58' E. on a random line bet. a/c. 9 and 10 2d fence 14 sets cor.
79.94	Intervet N. and S. line at cor. of a/c. 9-10-15 and 16 Thence down S. 89° 58' W. on a tree line bet. a/c. 9 and 16
39.87	Ascending gradually on rolling surface Deposit of quartz of broken glass 12 in. in the ground for 14 ac. cor.; dig pit 18x18x12 in. E and cor. of cor. 4 ft. dirt. and raised or rounded of earth 3 1/2 ft. base 1 1/2 ft. high over deposit Set E. pit above a piece slate 2 ft. long 2 in. 29 ft. 2 in. in the ground marked
	144.5 9 on N. face and 16 on S. face
79.84	The cor. of a/c. 8-9-10 and 17 Land sloping and rolling Soil gravelly 3rd rate No timber Thorny shrub undergrowth

Subdivision of T. 6 N. 12. 18 W.

chain	N 0° 18' W bel. secs. 8 and 9 Over rolling sloping land
4000	Set a limestone 10 x 7 x 6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.
5500	Dry wash in ravine 16 ft. deep drains E
7755	Dry wash 9 ft. deep 30 ft. wide drains S. 80° E. at foot of ascent. - Enter mountainous land course E. and w.
80,00	Set a limestone 10 x 9 x 7 in. 11 in. in the ground for cor. of secs. 4-5-8 and 9 marked with 5' notches on S. and 4' notches on E. edges; dig pit 18 x 18 x 12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high W. of cor.
	Land rolling slopes and mountainous Soil gravelly & stony Few timber Thorny shrub undergrowth - Mountainous land 2.45 elev. -

May 22, 1903

	May 23: I runn
	N 89° 5' S. E. on a narrow line bet. secs. 4 and 9
4000	Set temp. 1/4 sec. cor.
79,90	Interval N. and S. line 12 ft. N. of cor. of secs. 3-4-9 and 10
	Gained I runn
	N 89° 57' W. on a line bet. secs. 4 and 9
	Ascending gradually
10.00	Foot of mountain bears N.E. and S.W. - ascending
	Enter mountainous land
20.60	Top of spur ridge run S. 100 ft. high. - descending
20.25	Foot of slope, and wash draining S. E.
	Gained on gradual ascent. on broken slope
39.95	Set a limestone 18 x 16 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18 x 18 x 12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. -
79,90	The cor. of secs. 4-5-8 and 9:
	This cor. stands 225 ft above the cor. of secs. 3-4-9 and 10
	Land gradual slope, and mountainous

Subdivision of T. 6 N.R. 18 W.

claims	Soil gravelly and rocky 4:6 ratio No timber Mountain land 69.90 acs. --
40.00	N. 0°18' W on a random line bet. sec. 4 and 5 -- Set fence. 1/4 ac. cor.
84.96	Intersect N. body of Tp. 33 sec. 89°17' W. of cor. of secs. 4-5-32 and 33 on line before described Three Pines S. 0°4' E. on a line bet. sec. 4 and 5 -- Over mountainous land Ascending gradually on N.W. slope
12.00	Top of spur rises 45° 90 ft. above cor. - Descending
26.10	Slope of ravine drains E. - Ascending
38.00	Top of ridge bears E. and W. 180 ft. high. - Descending
44.96	Set on limestone 15x9x5' cor. 10 in. in the ground for 1/4 ac. cor.; dig pit 18x18x12 in. N. and S. of stone 3 ft. dip. and raise a mound of earth 3-2 ft. base 12 ft. high W. of cor.
49.95	Dry wash in hollow drains S. 75° E. 80 ft. below ridge Ascending
52.00	Top of ridge bears N. and S.E. - 30 ft. high Descending to
84.96	The cor. of secs. 4-5-8 and 9 Land mountainous Soil. gravelly and rocky 4:6 ratio Timber a few stunted cedar scattering Mountain land 84.96 acs.
	May 23: At 94°30' N. 41°12' W. on the lat. arc 20°27'30" E. on the decl. arc. and determine a meridian with the solar altitude cor. of secs. 5-6-31 and 32 cor. S. Adv. of Tp. as heretofore described three Pines N. 0°19' W. bet. sec. 31 and 32 Over broken, rolling, land 110 Ravine 40 ft. deep drains E 8.00 Ravine 50 ft. deep drains E. 12.45 Hollow 50 ft. deep drains E 25.04 Stream 1/2 the wide flows E. in hollow 60 ft. deep 45.00 Set a porphyry stone 16x8x5' cor. 11 in. in the ground for 1/4 ac. cor. marked 1/4 on N. face; dig pit 18x18x12 in.

Subdivisions of T. C. N. 18, 18 W.

chain	N. and S. of stone 2 ft. dist. and raise a mound of earth 3 ft. base 1 ft. high N. of cor.
8,000	Set a quartzite stone 18x6x6 in. 12 in. in the ground for cor. of accs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges; dig pit 18x18x12 in. in each acc. 5 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land rough rolling bunch Soil gravelly 3 rd rate No timber Dense thorny shrub undergrowth -
4,000	S 89° 58' E on a random line bet. accs. 29 and 32 Set limb. 1/4 sec. cor.
79,90	Intersect N. and S. line 28 ft. S. of cor. of accs 28-29-32 and 33 Thereon I run S 89° 50' W on a true line bet. accs. 29 and 32 Indense undergrowth -
39,95	Ascending gradually on rolling slope Deposit a quart of broken glass 12 in. in the ground for the acc. cor.; dig pit 18x18x12 in. Cor. w. of cor. 4 ft. dist. and raise a mound of earth - 3 ft. base 1 ft. high over deposit In E. pit drive a fine stake 2 ft. long 2 in. sq. 12 in. in the ground marked 1/4 S. 29 on N. face and 32 on S. face.
79,90	Thw cor. of accs. 29-30-31 and 32 Land rough broken slope Soil gravelly and loose sand 4 th rate - No timber Dense thorny shrub undergrowth 2 to 3 ft. high Dense undergrowth - 79,90 cor. -
	May 23: At thin cor. I set off 20° 28' W on the decl. and and at 11° 56' N. a m. I must observe the sun on the meridian; the resulting lat. is 41° 13' N. -
	From survey of Guide meridian I know I can not close on cor. of accs. 25-30-31 and 36 within limit. Therefore I run N. 89° 58' W. bet. accs. 30 and 31 Thornly dense undergrowth -
4,000	Ascending gradually on rough slope Set a quartzite stone 16x 9x6 in. 11 in. in the ground for

Subdivision of T. G. N. 18 18 M.

	chain	1/4 acre cor. marked 1/4 on N. face; dig pit 18x18x12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor. Undergrowth - becomes less dense. Leave dense undergrowth; bears N. and S.
73.80	Pilot Peak Cravign Road bears N. and S. Ascent becomes more steep corne N. and S.	
82.92	Intersection Guide Meridian 1/44 chs. 50° 6' E. of cor of sec. 25-30-31 and 36 as heretofore described Set a quartzite stone 18x. 8x6 ins. 12 ins in the ground for corner of sec. 30 and 31 marked C.C. on N. face with 1 groove on S and 5 grooves on N. face; dig pit 24x18x12 ins counterwise on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high E. of cor. and remove markings from old cor of sec. 25-30-31 and 36 referring to sec 30 and 31 Land rough, broken, and sloping Soil gravelly and sandy 4 ft. rate Timber, a few scrubby cedar scattering Dense thorny shrub undergrowth Dense undergrowth - 40.00 chs	
	N 0° 19' W. bet. sec. 29 and 30 Through dense undergrowth Over rough rolling land Hollow 30 ft. deep drain E. Gray wash 12 ft. deep drain E. Set a quartzite stone 16x9x7 ins. 11 ins. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig pit 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. Gray wash in hollow 30 ft. deep drain E. Set a limestone 17x7x6 ins. 11 ins. in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E. edges; dig pit 18x18x12 ins. in each sec 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. land rolling broken slope Soil gravelly and loamy sand 4 ft. rate Timber, a few scrubby cedar scattering Dense thorny shrub undergrowth 2 to 3 ft. high Dense undergrowth - 80.00 chs	

N 89° 50' E. on a random line bet. sec. 20 and 29

Subdivision of T.G. N. 18. 18^W.

Chains	
4000	Set limb. 1/4 sec. cor.
8000	Intersect N. and S. line 19 like N. of cor. of sec. 20-21-28 and 29 Three corr. 589°58'W. on a low line bet. sec. 20 and 29 Through dense undergrowth - Ascending gradually in broken slope
4000	Set at quartzite stone 17x7x6 ins. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins E. and W. of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high N. of cor.
8000	The cor. of secs. 19-20-29 and 30 Land rough, sloping / Soil gravelly and sandy 4th rate - Timber a few scrubby cedar scattering Dense thorny shrub undergrowth - 2 to 3 ft. high Dense undergrowth - 80.00 chs. -

Knowing from survey of Guide Meridian, I can not close on
cor. of secs. 19-24-25 and 30 within limit I run

N. 89°58'W bet. secs. 19 and 30

Through dense undergrowth -

Ascending over rolling slope

Set at quartzite stone 17x8x6 ins. 11 in. in the ground for
1/4 sec. cor. marked 1/4 on N. face; dig pit 18x18x12 ins E. and W.
of stone 3 ft. dist. and raise a mound of earth. 3 1/2 ft. base 1 1/2 ft. high
N. of cor. -

Undergrowth becomes less dense

Leave dense undergrowth bears N. and S.

Emigrant road bears N and S

Arent becomes abrupt, course N and S. to

Enter sloping bench and gradual ascent

Intersect Guide meridian 1/4 chs. 50°38'W of cor. of sec. 19-
24-25 and 30 as heretofore described

Set at quartzite stone 16x7x5 ins. 11 in. in the ground for closing
cor. of sec. 19 and 30 marked C.C. on E. face with 2 grooves v.s.
and 4 grooves on N. face; raise a mound of alien 2 ft. base 1 1/2 ft.
high E. of cor. Pit unpredictable - and destroy markings on old cor. of
secs. 19-24-25 and 30 referring to cor. 19 and 30

Land rough, sloping bench
Soil gravelly 3rd rate -

Timber, a few scrubby cedar scattering

0%
1/2
3/4

Subdivision of T.C. M. 18 m.

chains	<p>Dense thorny shrub undergrowth -</p> <p>Dense undergrowth - 50.00 chm. -</p>
	<p>N. 0° 19' W. bet. sec. 19 and 20.</p> <p>Through dense undergrowth -</p> <p>Land, rolling, slopes</p>
40,00	<p>Set a limestone 17x7x6 in. 11 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.</p>
71,80	<p>Drug roads in hollow 20 ft. deep drains E.</p>
80,00	<p>Set a limestone 18x7x6 in. 12 in. in the ground for cor. of sec. 17-18-19 and 20 marked with 3 notches on S. and 5 notches on E. edges; dig pit 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth - 4 ft. base 2 ft. high N. of cor.</p> <p>Land rolling and sloping</p> <p>Soil gravelly and sandy 3rd rate</p> <p>Timber, a few elated cedar scattering</p> <p>Dense thorny shrub undergrowth -</p> <p>Dense undergrowth - 80.00 chm. -</p>
	<p>May 23, 1903.</p>
	<p>May 24: At 7:10 a.m., I set off 410 1/4 45" N. on decl. arc 20° 38' N. on the decl. arc and determine a meridian with the solar at the cor. of sec. 17-18-19 and 20 then I run N 89° 58' E. or a random line bet. sec. 17 and 20</p>
40,00	<p>Set limits 1/4 sec. cor.</p>
80,10	<p>Subtract N. and S. line 5' less N. of cor. of sec. 16-17-20 and 21</p> <p>Then I run</p> <p>First on a true line bet. sec. 17 and 20.</p> <p>Through dense undergrowth -</p>
	<p>Descending gradually on rolling slope.</p>
40,00	<p>Set a limestone 17x8x7 in. 12 in. in the ground for 1/4 acre cor. marked 1/4 on N. face; dig pit 18x18x12 in. E. and W. of stone 3 ft. dist. and raise a mound of earth - 3 1/2 ft. base 1 1/2 ft. high N. of cor.</p>
42,60	<p>Old road bed. N.W. and S.E.</p>
80,10	<p>The cor. of sec. 17-18-19 and 20.</p> <p>Land broken slope.</p> <p>Soil gravelly 3rd rate</p> <p>No timber</p>

Subdivision of T.C. N.R. 18 m.

Chains	Dense thorny shrub undergrowth: 2 to 3 ft. high. Dense undergrowth - 80.00 cu.
	Showing firm recovery of Guide Meridian Line not close on corr. of sec. 13-18-19 and 24 within limit I run N. 8° 58' W. bet. sec. 18 and 19
	Through dense undergrowth
40.00	Ascending gradually over rolling slope Set on limestone 17x8x5' inn. 12 inn. in the ground for 1/4 acre corr. marked 1/4 on N. face: where A cedar tree 10 inn. diam. bears N 10° 5' W. 1.80 cu. dia. marked 14-S.18 B.T. A cedar tree 6 inn. diam. bears S. 45° 0' W. 2.04 cu. dia. marked 14-S.19 B.T.
55.05	Old Emigrant Road bears N. and S. at foot of abrupt ascent Leave dense undergrowth - course N. and S. Ascend
72.00	Top of slope runs S.E. and beginning of descent to 76.00 Ditch wash in hollow 20 ft. deep drains S. 75° E.
80.70	Believed Guide Meridian 1.72 cu. 30° 3' 21" of corr. of sec. 13- 18-19 and 24 on bedrock described Set on limestone 16x8x6 inn. 11 inn. in the ground for closing corr. of sec. 18 and 19 marked 0.0 on E. face with 3 groves on S. and N. faces; raised a rounded of earth 2 ft. base 13 ft. height E. of corr. 6 ft. - 11 ft. - 16 ft. - 18 ft. - 20 ft. - 24 ft. old corr. of sec. 13-18-19 and 24 referring to north and 14 Land irregular, sloping and rolling With generally 34.5 scale
	Timber, abundant cedar scattering
	Leave thorny shrub undergrowth
	Dense undergrowth 58.00 cu. -
	N. 0° 19' W. bet. sec. 17 and 18
	Through dense undergrowth
	Over rolling, sloping rockface
100.00	Set on limestone 17x8x6 inn. 12 inn. in the ground for the sec. corr. marked 1/4 on N. face; dig pile 18x18x12 inn. N. and S. of above 3 ft. dia. and raised a mound of earth 35 ft. base 14 ft. high N. of corr.
148.18	Old road. bears N.W. and S.E.
150.45	Wash in hollow 20 ft. deep drains S
150.00	Set on limestone 18x9x7 inn. 12 inn. in the ground for corr. of sec.

Subdivision of T. G.N. 12, 18 m.

	claims 7-8-17 and 18 marked with 4 notches on S. and 5' notches on E. edges; dig pit - 18x18x12 in. in each acc. 5½ ft. dirt and raise a mound of earth - 4 ft. base 2 ft. high N. of cor. Land, rolling and sloping Soil gravelly 3 rd rate No timber Dense thorny shrub undergrowth 2 to 3 ft. high Leave undergrowth - 8.00 cbr. -
4,000	East on a random line bet. recs. 8 and 17 Set line. ¼ ac. cor. Intersect N. and S. line at cor. of recs. 8-9-16 and 17 Thence I run West on a line line bet. recs. 8 and 17 Through dense undergrowth - Ascending gradually Set at ^{limestone} 16x12x6 in. 11 in. in the ground for ¼ ac. cor. marked ¼ on N. face; raise a mound of elian 2 ft. base 1½ ft. high N. of cor. Pit impracticable
60.84	Old road bears N.W. and S.E. 8.00 Th. cor. of recs. 7-8-17 and 18 Land, rolling, and sloping Soil gravelly 3 rd rate No timber Dense thorny shrub undergrowth - Leave undergrowth - 8.00 cbr. -
4,000	Knowing from re-survey of Guide Mountain I can not close on cor. of recs. 7-12-13 and 18 within the limit, I run N 89° 58' W bet. recs. 7 and 18 Through dense undergrowth - Ascending gradually over rough slope Set at limestone 16x7x6 in. 11 in. in the ground for ¼ ac. cor. marked ¼ on N. face; dig pit - 18x18x12 in. E. and W. of cor. 3 ft. dirt and raise a mound of earth - 3½ ft. base 1½ ft. high N. of cor.
54.90	Undergrowth - becomes less dense Leave dense undergrowth - course N. and S. Old Emigrant road bears N. and S. at foot of mountain Enter mountainous land course N. and S. Ascending to

Subdivision of T.C.N.R. 18 W.

Chain

80,10

Intersect Guide Meridian 2.48 cdm S. 0° 5' E. of cor of secs. 7-12-13 and 18 as last before described -

Set a limestone 16x8x6 in. 11 in. in the ground for closing cor. of secs. 7 and 18 marked C.C. on E. face with 2 grooves on N. and 4 grooves on S. faces; dig pits 24-18x12 in. crossing on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high E. of cor.

And numerous markings from old cor. of secs. 7-12-13 and 18 referring to secs. 7 and 18

This cor. stands 160 ft. above foot of mountain

Land broken slope and mountainous

Soil gravelly 3rd rate -

Timber, scattering cedar

Dense thorny shrub undergrowth -

Never undergrowth and mountainous land 80,10 cdm -

Array 24! At this cor. I set off 20° 39' 00" N. on the decl. arc and at 114° 57' 00" a.m., just before the sun on the meridian; the resulting lat. is 41° 15' 30" N.

N. 0° 19' W. bet. secs. 7 and 8

Over rolling slope

88,80

Shallow 20 ft. deep, drains E

40,00

Set on limestone 16x8x6 in. 11 in. in the ground for cor. sec. cor. marked 18 on N. face; raise a mound of earth 2 ft. base 15 ft. high on cor. Pit impracticable

4318

Old road bear N. 25° W. and S. 25° E.

49,40

Shallow 20 ft. deep, drains E

74,75

Shallow 20 ft. deep, drains E

80,00

Set on limestone 16x8x6 in. 11 in. in the ground for cor. of sec. 5-6-7 and 8 marked with 3' notches on S. and E. edges; dig pits 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, rolling, sloping bench

Soil gravelly 3rd rate -

No timber

Dense thorny shrub undergrowth - 80-00 ocho -

East on a random line bet. sec. 5 and 8'

40,00

Set 16x8x6 sec. cor.

80,00

Intersect N. and S. line 10 ft. E. N. of cor. of sec. 7-4-6-8 and 9

Subdivision of T 6 N 18 E

	Brainerd, Minn.
4,000	N 89° 56' W on a limestone bed, area 5 and 7 Over, rolling bottom surface. Begin gradual descent.
25,25	Bottom - 30 ft. deep, drainage S.E. Set at limestone 16 x 9 x 5 in 11 in. in the ground for 114 sec. cor. marshy 14 in. N. face; dig pit 18 x 5 x 12 in. C. and S. of stone 3 ft. thick and raised a mound of earth 3.5 ft. base 1.5 ft. high N. of cor.
8,000	Flu cor. of area 5-6-7 and 8. Low, rolling. Soil gravelly 3 ft. mato No timber. Thorned shrub undergrowth.
19,10	Showing form receiving of Guide Meridian. I can not close on cor. of areas 1-6-7 and 12 within limit. I ran. N 89° 58' W bet. areas 6 and 7. Ascending gradually on rolling slope.
4,000	Old road base N. 15° W. and S. 15° E. Set at limestone 18 x 8 x 6 in. 12 in. in the ground for 14 sec. cor. marshy 14 in. N. face; dig pit 18 x 18 x 12 in. S. and S. of stone 3 ft. thick and raised a mound of earth 3.5 ft. base 1.5 ft. high N. of cor.
7,815	Old Embigrant Road ... base N. and S. at foot of abrupt ascent.
8,010	Large wash in ravine drainage N. 65° E.
8,020	Described Guide Meridian 2.5° C.L. S 0° 18' E. of cor. of areas 1-6-7 and 12 as henechopri described. Set at limestone 18 x 12 x 8 in. 12 in. in the ground for climbing cor. of areas 6 and 7, marshy C.C. on E. face with 1.5 in. on S. and S. groove on S. face from which A. cedar shrub, 1.5 in. diameter, height S. 18° E. 2.8 ft. thick. marshy T.G. N. 12 15 34. S 7. 13 T.
	A cedar tree 6 in. diam. height N. 45° 10' E. 4.0 ft. thick marshy T.G. N. 12 15 34. S 7. 13 T.
	Dred across all marshes from old cor. of areas 1-6-7 and 12 referring to areas 6 and 7. Land rough, rolling hills and foothills Soil gravelly 3 ft. mato

Distribution of T.C.N.R. 18.W.

drawn	Timber, cedar scattering and in bunches Sage and thorny shrub undergrowth
4000	No. 19.W on a random line bet. recs. 5 and 6 Red lime. 14 sec. cr.
8400	Intersection N. bdy. of Tp. 28 this 3,890 18.W. of cor. of recs. 5-6-31 and 32 as heretofore described.
3400	Flume Draw S. of 18.E on a line bet. recs. 5 and 6 Ascending gradually over broken surface Top of slope bears E. and W. Flume over nearly level rolling land to
4400	Get a limestone 15x10x6 in.-10 in. in the ground for the rec. cor. marked 44 on W. face; dig pit 18x18x12 in. N. and S. of stone 3 ft. deep and raise a mound of earth- 3½ ft. base 15 ft. high N. of cor.
8400	Get the cor. of recs. 5-6-7 and 8 Land, rolling, broken Soil gravelly, sand mottled Timber, a few cedar scattering Sage and sagebrush undergrowth I return to the meridian established April 15 from Polaris at the cor. of Tp. 6 and 7 N. R.S. 18 and 19 E. as described in "Book D", field notes of survey of Guide Meridian through T. C. N. Recs. 18 and 19 E. - At 4° 56' E. from T. M. I set off 20° 43' E. on the due east and test the adjustments of my solar, finding it gives the same meridian as before and adjustments correct. -
	May 24. 1903

General Description

This township is composed mainly of sloping, broken bench land, extending from the foot of Pilot Peak Range on the west to the Great Salt Lake Desert on the east. - Its western edge infringes on the foothills while its eastern part lies more of the desert, being composed of alkali flats upon which the vegetation indigenous to that soil and climate is making a slow but sure progress.

Along the western portion is a scattering growth of cedar, and the entire township is covered with a rank

Subdivision of T. 6 M.R. 18 N.

grasses of various kinds of several varieties; but no nutritious grasses is found at present, due probably to the fact that numerous sheep herds subsist here through the winter months until nothing but the thorn and some sagebrush remains. - The soil is poor in quality, being either alkali clay, marsh gravel or fine shifting sand which every bright wind moves along in great clouds. -

The few small streams coming down from the mountain except in time of freshets, sink away before reaching the western edge of the township, and there is no water of any consequence running, and not any standing. -

There are no quarries nor mines nor indications of mineral of any kind. -

There are no settlers, nor improvements of any kind within the township. -

Andrew P Hanson
U.S. Army Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

Final affidavit see book L³ ff 711 Pd H, Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the
....., of the
....., meridian, of, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chainman.

....., Chainman.

Final affidavit see book L³ ff 711 Pd H, Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this
day of , 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor _____, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____, day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

The final affidavit recd from L. F. J. M. R. H. W.

of the _____ meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Sold Lake City Plat March 31
The following surveys
of Township 7 North Range 18 West of the Salt
Lake Base & Meridian, etc.*

executed by _____, *Andrew P. Hanson*, dated _____, March 18, 1903, 189_____, having critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

Edward H. Alderson
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this _____.

United States Surveyor